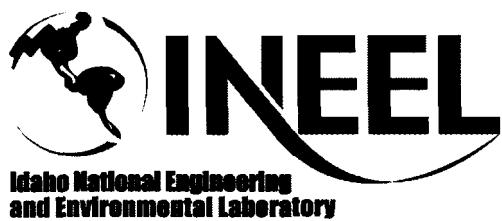


Engineering Design File

PROJECT FILE NO. 22901

V-Tank Analytical Data: Calculated Averages and Upper Confidence Limits



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V-Tank Analytical Data: Calculated Averages and Upper Confidence

1. Title: Limits Page 1 of 2

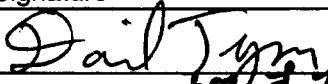
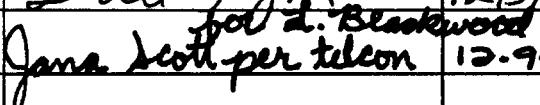
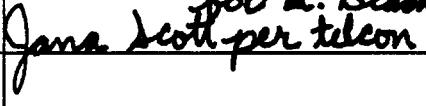
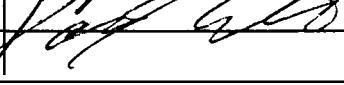
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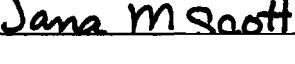
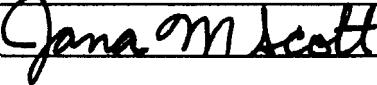
3. NPH Performance Category: _____ or N/A

4. EDF Safety Category: _____ or N/A SCC Safety Category: _____ or N/A

5. Summary:
The purpose of this EDF is to analyze the chemical and radiological data currently in the V-Tanks contents database and to determine averages and 90% and 95% upper confidence limits for each tank and the composite of all four tanks. This data will be used as the basis for material balances for treatment processes and for waste profiling.

3. Review (R) and Approval (A) and Acceptance (Ac) Signatures:
(See instructions for definitions of terms and significance of signatures.)

	R/A	Typed Name/Organization	Signature	Date
Performer/ Author	N/A	Dave Tyson		12/15/03
Technical Checker	R	Larry Blackwood	 	12-9-03
Independent Peer Reviewer (if applicable)	R			
Approver	A	Gary McDannel		12/8/03
Requestor (if applicable)	Ac	Dave Eaton		12/15/03

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1. Title: Limits

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ACRONYMS

EDF	Engineering Design File
PCB	polychlorinated biphenyl
RCRA	Resource Conservation and Recovery Act
SVOC	semi-volatile organic compound
TCLP	toxicity characteristic leaching procedure
UCL	upper confidence limit
UTS	universal treatment standard
VOC	volatile organic compound

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V-Tank Analytical Data: Calculated Averages and Upper Confidence Limits

1. OVERVIEW

The purpose of this Engineering Design File (EDF) is to analyze the chemical and radiological data currently in the V-Tanks database and to determine the averages and 90% and 95% upper confidence limits (UCL) of the contaminants and other constituents of interest. This EDF contains spreadsheets of calculations involving analytical data in addition to an explanation of the spreadsheet contents and calculations/assumptions used to make those calculations. The purpose of the spreadsheet is to take eight separate data sets (four tanks, two phases – sludge and liquid) and combine them into one single data set that accounts for the V-tanks contents as a **single waste stream**. In addition, a 90% and 95% UCL is developed for each contaminant for both waste management requirements and for treatment design.

The analytical data contained in these spreadsheets cover the following groups of analyses:

- Metals – X-ray diffraction, used for metals >1% of dry solid (good estimate for refractory metals)
- Metals – Acid digestion followed by Atomic Absorption
- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs)
- Aroclors (polychlorinated biphenyls [PCBs]) – a subset of the SVOCs
- Miscellaneous/Anions – density, chlorides, fluorides, sulfates, nitrates, etc.
- Toxicity Characteristic Leaching Procedure (TCLP) for metals and VOCs
- Radiological – Gamma Spectroscopy, Isotopic Alphas and Betas.

The source of the data is Appendix A of the *Comprehensive Remedial Investigation/Feasibility Study for the Test Area North Operable Unit 1-10 at the Idaho National Engineering and Environmental Laboratory* (the WAG 1 RI/FS) (DOE-ID 1997). Section 4 of this report provides the data validation reports for the data. No single sampling and analysis campaign covers all of these analyses. Table 1 explains the usage of data.

Table 1. Data choice based on year of sampling campaign.

Analysis	Liquid	Sludge
Bulk metals	1993 data	1980 data (Tanks V1, V2, and V3)
RCRA metals (total)	1993 data (Tanks V1, V2, and V3) 1996 data (Tank V9)	1996 data ^a
TCLP metals	N/A	1993 data (Tanks V1, V2, and V3) 2000 data (Tank V9)
Radionuclides	1996 data	1996 data ^a
VOC	1993 data (Tanks V1, V2, and V3) 1996 data (Tank V9)	1993 data (Tanks V1, V2, and V3) ^a 1996 (Tank V9) ^a
TCLP VOC	N/A	1993 data (Tanks V1, V2, and V3)
PCB	1996 data	1996 data
SVOC	1996 data	1996 data
Miscellaneous: Anions, pH, Total C, etc.	1996 data	1996 data
% Solid in Sludge	N/A	1993 data (Tanks V1, V2, and V3) 1996 (Tank V9)

a. Denotes reporting data on **wet** sludge basis.

As is evident from Table 1, the V-Tanks contents consist of two phases: a supernatant aqueous phase and a wet sludge phase. For the analysis of bulk metals, SVOCs, and PCBs, the analytical concentrations are reported on the dry solid weight component of the sludge. The remaining analyses are reported on the total sludge weight. When determining concentrations of contaminants for waste characterization or comparisons to universal treatment standards (UTSs), knowledge of this reporting standard is critical. Further details of the analytical data for the V-Tanks contents are provided in Appendix A.

2. SPREADSHEET DESCRIPTIONS

Two Excel™ spreadsheets have been used to combine the separate data sets into one. The file “V-Tank Data Summary.xls” includes the following ten workbooks:

- **Sludge Phase** – Contains the analytical laboratory reported sludge phase data (non-radiological) for all four tanks. The data is averaged for each tank and assigned a standard error. Concentrations are expressed on both a dry and wet basis depending on analysis type (e.g., VOC, SVOC, metals). When a detection limit is presented, the concentration is reported in red type. The full value of the detection limit is used.
- **Liquid Phase** – Contains the analytical laboratory reported liquid phase data (non-radiological) for all four tanks. The data is averaged for each tank and assigned a standard error. When a detection

limit is presented, the concentration is reported in red type. The full value of the detection limit is used.

- Sludge Phase–Radionuclides – Contains the analytical laboratory reported sludge phase radiological data for all four tanks. The data is averaged for each tank and assigned a standard error. Concentrations are expressed on a wet basis. When a detection limit is presented, the concentration is reported in red type. The full value of the detection limit is used.
- Liquid Phase–Radionuclides – Contains the analytical laboratory reported liquid phase radiological data for all four tanks. The data is averaged for each tank and assigned a standard error. When a detection limit is presented, the concentration is reported in red type. The full value of the detection limit is used.
- Tank Properties – Contains the properties of each tank:
 - Sludge phase settled solids concentration (1993 data)
 - Sludge phase filtered solids concentration (1996 data)
 - Sludge phase density (1996 data)
 - Sludge phase volume
 - Liquid phase volume

Corresponding standard errors and degrees of freedom are also reported. The sludge phase settled solids concentrations are assumed to represent the solids concentration of the V-Tanks. Sludge phase data performed in 1996, and reported on a wet basis, were based on a concentrated filtered sludge. These values need to be corrected in the 1993 settled phase values. These tank properties were used for calculations in other workbooks.

- Tank V-1 – This workbook takes the values from the previous workbooks to calculate the sludge phase weight of a constituent in Tank V-1, the liquid phase weight of a constituent in Tank V-1, the total weight of the constituent in Tank V-1, the mass concentration of the constituent in Tank V-1, and the 90% UCL of the mass concentration. The workbook “Tank Properties” is used to calculate these values and a standard error propagation is performed. In conjunction with standard error propagation, corresponding degrees of freedom are tracked and weight averaged to the propagated standard error. Both the propagated error and corresponding degree of freedom are used for the 90% UCL calculation. An Excel™ function that calculates the t-value from the specified confidence interval tolerance and the degree of freedom was used. This function is designed to truncate noninteger input values for the degrees of freedom to perform the calculation. In lieu of using linear interpolation or any other curve-fitting strategy, it was decided to use the Excel™ function in spite of the truncation.

Note: The truncation ends up overestimating the t-value, serving to provide an overestimate of the 90% UCL. Since this is a worst-case value, any inaccuracies incurred from truncation were deemed acceptable.

- Tank V-2 – See above discussion for the workbook “Tank V-1.”
- Tank V-3 – See above discussion for the workbook “Tank V-1.”

- Tank V-9 – See above discussion for the workbook “Tank V-1.”
- All Tanks – This workbook takes the total weights of each tank from workbooks “Tank V-1,” “Tank V-2,” “Tank V-3,” and “Tank V-9” with the sum of the tank weights determined in the workbook “Tank Properties” to determine the total weight concentration. The standard errors were propagated and the degrees of freedom were weight averaged against the propagated standard errors. Both the propagated error and corresponding degree of freedom are used for the 90% UCL calculation and 95% UCL.

The 90% UCL values are used for material balances related to treatment flow sheets and for the INEEL Waste Generator Service’s Waste Profile forms. The 95% UCL values are used for risk assessment calculations associated with CERCLA contamination.

The second spreadsheet, “TCLP Table for V-Tanks.xls,” is used for performing waste characterization of the V-Tanks waste as a single waste stream. Until the tank contents are physically homogenized to produce one waste stream, the analytical results of each tank must be mathematically combined to produce characterization data. The approach taken in this EDF represents the best estimate available at the time this document was prepared. The tank contents will be homogenized and sampled in FY04, at which time the assumptions can be verified. The following workbooks are in this spreadsheet:

- Sludge – Reports the TCLP data for the D004 to D043 characteristic constituents. For Tanks V-1, V-2, and V-3, TCLP-metals concentration and TCLP-VOC concentrations are reported. No SVOC-TCLP analyses were performed. SVOC values given in “V-Tank Data Summary.xls”, workbook “Sludge Phase,” were reported. These values are total SVOC in the solid phase and were divided by 20 to provide a worst-case TCLP value. For Tank V-9, TCLP-metals concentrations are reported. No VOC-TCLP or SVOC-TCLP analysis was performed. As is the case with the SVOC values for Tanks V-1, V-2, and V-3, total values were used and were divided by 20 to provide a worst-case TCLP value. For all TCLP values and estimated TCLP values given, an average, a standard error, and a 90% UCL were determined. Detection limit values are reported in red text.
- Liquid – Reports the liquid phase concentration. These values were taken directly from “V-Tank Data Summary.xls,” workbook “Liquid Phase.” Averages, standard errors, and 90% UCLs were reported.
- Total – This workbook uses the “Sludge,” “Liquid,” and “Volumes” workbooks to calculate the TCLP for each tank (combination of both phases) and for the V-Tanks waste as a total.
- Volumes – This workbook reports the volumes of the liquid phase (supernate), the liquid phase in the sludge, and the theoretical TCLP solution (based on 20 times the solid weight). This is reported for all four tanks. These values are used with the workbooks “Solid” and “Liquid” to calculate combined TCLPs.

3. DATA VALIDATION

The data for the V-Tanks contents that is used in this EDF were originally taken from Appendix H of the WAG 1 RI/FS (DOE-ID 1997). However, it was determined that the data had not been validated. To substantiate the values used to develop this EDF, all of the raw data was sent for validation by the INEEL’s Sample Management Office. The validations were performed to check the quality of the data. In addition, the validations were used to verify the reporting methodology for sludge samples: as a wet sludge or as a dry solid. The reporting protocol is tied to the particular analysis being performed. The validation reports are listed in Section 4, References.

The validation effort determined that the 1996 metals data for the sludge samples of Tanks V1, V2, and V3 were reported incorrectly (*Recalculations Associated with the Metals Analysis for SDG #2CB101011V*, INEEL Letter File DNT-258-02, November 5, 2002). The metal values that are provided in Appendix D are raw data based on the digestate concentrations from metals analysis. The analytical laboratory did not correct the raw data to the reporting data: as mg/kg in the wet sludge. Thus, the validator applied the appropriate equation to the raw data and supplied new metal concentrations for all sludge samples associated with Tanks V1, V2, and V3. The correct values for metals concentration provided lower values than were previously used. Any previous treatment of the data (e.g., material balances) used inflated metals values, perhaps providing a “worst-case” number. The spreadsheets in this EDF use the corrected (validated) metals values.

4. REFERENCES

DOE-ID, 1997, *Comprehensive Remedial Investigation/Feasibility Study for the Test Area North Operable Unit 1-10 at the Idaho National Engineering and Environmental Laboratory*, DOE/ID-10557, Rev. 0, Appendix A, November.

The following are the validation reports mentioned, but not individually referenced, in Section 3 of this EDF:

INEEL Interoffice Memorandum from H.C. Johnson to G.E. McDannel, *Transmittal of the Semivolatiles Limitations and Validation (L&V) Report for Optimal Sampling Strategy of V-Tanks Sampling Project*, SDG #2CB101011, Letter File HCJ-143-02, October 10, 2002.

INEEL Interoffice Memorandum from H.C. Johnson to G.E. McDannel, *Transmittal of the Volatiles Limitations and Validation (L&V) Report for Optimal Sampling Strategy of Tanks V-1, V-2, V-3, V-9, V-13, and V-14*, SDG #2CB101011V, Letter File HCJ-144-02, October 10, 2002.

INEEL Interoffice Memorandum from H.C. Johnson to G.E. McDannel, *Transmittal of the Volatiles Limitations and Validation (L&V) Report for Optimal Sampling Strategy of V-Tanks Sampling Project*, SDG #2CB101011, Letter File HCJ-145-02, October 10, 2002.

INEEL Interoffice Memorandum from H.C. Johnson to G.E. McDannel, *Transmittal of the Limitations and Validation (L&V) Report for Test Area North Contact Laboratory Program Toxicity Characteristic Leaching Procedure Volatile Data*, SDG #TI600101CV, Letter File HCJ-146-02, October 10, 2002.

INEEL Interoffice Memorandum from J.G. Jolley to R.K. Farnsworth, *Transmittal of Polychlorinated Biphenyls (PCBs) as Aroclors Limitations and Validation (L&V) Report for Optimal Samp Strategy V-Tanks*, SDG #2CB90201VL, Letter File JGJ-004-03, May 28, 2003.

INEEL Interoffice Memorandum from J.G. Jolley to R.K. Farnsworth, *Transmittal of Semivolatile Organic Compounds (SVOCs) Limitation and Validation (L&V) Report for Optimal Samp Strategy V-Tanks*, SDG #2CB90201VL, Letter File JGJ-005-03, May 29, 2003.

INEEL Interoffice Memorandum from J.G. Jolley to R.K. Farnsworth, *Transmittal of Volatile Organic Compounds (VOCs) Limitations and Validation (L&V) Report for Optimal Samp Strategy V-Tanks*, SDG #2CB90201VL, Letter File JGJ-006-03, June 2, 2003.

INEEL Interoffice Memorandum from J.G. Jolley to R.K. Farnsworth, *Transmittal of Volatile Organic Compounds (VOCs) Limitation and Validation (L&V) Report for Optimal Samp Strategy V-Tanks*, SDG #2CB90301VL, Letter File JGJ-007-03, June 2, 2003.

INEEL Interoffice Memorandum from B.A. McIlwain to G.E. McDannel, *Transmission of L&V Report in Support of Optimal Sampling Strategy of Tanks V-1, V-2, V-3, V-9, V-13, and V-14*, SDG #2CB101011V, Letter File BAM-052-02, October 11, 2002.

INEEL Interoffice Memorandum from S. Shinn to R.K. Farnsworth, *Transmittal of Organic Analysis Limitations and Validation (L&V) Report for Optimal Sampling Strategy V-Tanks*, SDG #2CB90201VL, Letter File SOS-TL098-03, June 11, 2003.

INEEL Interoffice Memorandum from D.N. Thompson to G.E. McDannel, *Transmittal of the Limitations and Validation (L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (IMCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-1, V-2, V-3, V-9, V-13, and V-14 at the Idaho National Engineering Laboratory (INEL), Sample Delivery Group (SDG) #2CB101011V* Letter File DNT-236-02, October 10, 2002.

INEEL Interoffice Memorandum from D.N. Thompson to G.E. McDannel, *Transmittal of the Limitations and Validation (L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (IMCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-1, V-2, V-3, V-9, V-13, and V-14 at the Idaho National Engineering Laboratory (INEL), Sample Delivery Group (SDG) #2CB101011V* Letter File DNT-237-02, October 10, 2002.

INEEL Interoffice Memorandum from D.N. Thompson to G.E. McDannel, *Transmittal of the Limitations and Validation (L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (IMCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-1, V-2, V-3, V-9, V-13, and V-14 at the Idaho National Engineering Laboratory (INEL), Sample Delivery Group (SDG) #2CB101011V* Letter File DNT-238-02, October 11, 2002.

INEEL Interoffice Memorandum from D.N. Thompson to G.E. McDannel, *Recalculations Associated with the Metals Analysis for SDG #2CB101011V*, Letter File DNT-258-02, November 5, 2002.

INEEL Interoffice Memorandum from D.N. Thompson to R.K. Farnsworth, *Transmittal of the Limitations and Validation (L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (IMCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-9, V-13, and V-14 at the Idaho National Engineering Laboratory, Sample Delivery Group (SDG) #2CB90301RN* Letter File DNT-088-03, May 13, 2003.

INEEL Interoffice Memorandum from D.N. Thompson to R.K. Farnsworth, *Transmittal of the Limitations and Validation (L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (I&MCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-9, V-13, and V-14 at the Idaho National Engineering Laboratory, Sample Delivery Group (SDG) #2CB903013T*, Letter File DNT-089-03, May 13, 2003.

INEEL Interoffice Memorandum from D.N. Thompson to R.K. Farnsworth, *Transmittal of the Limitations and Validation (L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (I&MCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-9, V-13, and V-14 at the Idaho National Engineering Laboratory, Sample Delivery Group (SDG) #2CB902013T* Letter File DNT-090-03, May 13, 2003.

INEEL Interoffice Memorandum from D.N. Thompson to R.K. Farnsworth, *Transmittal of the Limitations and Validation(L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (IMCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-9, V-13, and V-14 at the Idaho National Engineering Laboratory, Sample Delivery Group (SDG)*#2CB90301VL, Letter File DNT-091-03, May 13,2003.

INEEL Interoffice Memorandum from D.N. Thompson to R.K. Farnsworth, *Transmittal of the Limitations and Validation(L&V) Report Pertaining to Inorganic and Miscellaneous Classical Analysis (IMCA) of Samples Collected in Support of the Optimal Sampling Strategy of Tanks V-9, V-13, and V-14 at the Idaho National Engineering Laboratory, Sample Delivery Group (SDG)*#2CB90301VL Letter File DNT-092-03, May 14,2003.

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Appendix A

Analytical Data Descriptions

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Appendix A

Analytical Data Descriptions

For the sludge phase, the data from V-Tank sampling activities is reported as a concentration on either a dry basis (SVOCs and PCB analysis) or on a wet solids/slurry basis (inorganics, radionuclides, VOCs, etc.). For flow sheet evaluation (material balance), the contents of the V-Tanks were converted to an absolute weight within the tank. The following are some assumptions used for this calculation:

- Samples in 1993 were obtained using a COLIWASA; the samples were allowed to sit undisturbed to allow the solid phase to settle. After settling, the aqueous layer was decanted from the sample. The percent solids were determined on the settled sludge for each V-Tank sample (two samples per tank for Tanks V1, V2, and V3). The percent solids determinations are assumed to represent the actual sludge layer in each V-Tank. The percent solids (by weight) were averaged for each tank and assigned a standard error.^a
- Wet-based concentrations on constituents for the sludge phase (based on gravity-filtered samples) of measured analytes for 1996 data are based on percents solid values of the gravity-filtered sludge. For each V-Tank, the percent solids of the gravity-filtered sludges were averaged and assigned a standard error.
- The specific gravity of the sludge in Tanks V-1, V-2, and V-3 were reported in 1996 miscellaneous data and averaged with a standard error reported. The specific gravity of the sludge in Tank V-9 was determined from the rock grain (dry) density with the assumed solids loading (see bullet 1) in the sludge to determine average densities and standard errors.
- The volume of the sludge layer in each tank was estimated in 1996.^b It was assumed that the sludge volume, estimated through height measurements, could be off by \pm 1 in. Volumes were estimated for the sludge layers and the associated bounds for this estimation (due to the \pm 1-in. deviation) was assumed to bracket the total volume in a 95% confidence interval. The standard error was back-calculated from this value. Since Tank V-9 has a unique geometry, it was assumed that a volume range of 50 gal (assuming a 95% confidence interval) for the sludge could be back-calculated to determine a standard error.

Using these assumptions, a protocol for determining a total constituent weight per tank would be:

1. Determine the basis for the concentration in the sludge (wet vs. dry).
2. If on a wet basis, determine the average and standard error.
3. If the wet based concentrations were from sampling in 1996, divide the wet basis average concentration by the average percent solids (by weight) determined for the given tank in the 1996 gravity filtration.

^a Since Tank V-9 was not sampled until 1996, the percent solids that were obtained in 1996 were used to estimate the percent solids of the sludge phase in that tank.

^b The direct determination was based on a vertical distance converted to a volumetric value based on tank geometry. A table was constructed that converted height to volume and reported this by 1-in. increments.

4. Multiply the value determined in Step 3 by the average percent solids (by weight) determined for the given **tank** in the 1993 decant. The combined effects of Step 2 and 3 allow the data to be presented in terms of the defined actual sludge phase.
5. Multiply the value determined in Step 4 by the average value of sludge density. This puts the concentration on a weight per volume basis.
6. Multiply the value determined in Step 5 by the reported estimated volume of sludge as given for each tank. This provides the total weight of constituent in the sludge phase.
7. If the wet-based concentrations were from sampling in 1993, start with Step 5.
8. If the concentrations are reported on a dry basis, **start** with Step 4.

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Appendix B

Determination of Standard Errors and Degrees of Freedom

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Appendix B

Determination of Standard Errors and Degrees of Freedom

This calculation procedure will determine the total average weights of any constituent that was measured in the sludge phase. The liquid phase concentration is simply the average of the concentrations (expressed per liter) multiplied the volume of the aqueous phase in the tanks. For most of the constituents, only the average total weights are presented. For all of the data that were received, standard errors are determined and propagated such that both 90 and 95% UCLs can be reported. These UCLs provide a cushion for regulatory and design considerations. The following section will provide a simple example of how these were determined. (*Note:* The error propagation calculations are performed assuming that all measurement errors are independent [i.e. there is no inclusion of covariance terms in the error propagation formulas].)

Let a and b represent average values of a parameter with $s(a)$ and $s(b)$ representing the respective standard errors. If a and b are used to calculate a value for $c = f(a,b)$, the propagated error for c would be:

$$s_c = \sqrt{s_a^2 + s_b^2}$$

where:

$$u_a^2 = \left(\frac{\partial f}{\partial a} \right)^2 s_a^2 \quad u_b^2 = \left(\frac{\partial f}{\partial b} \right)^2 s_b^2$$

In addition to propagating errors, the degrees of freedom need to be tracked prior to applying the 95% UCL. Let the degrees of freedom for a and b be represented by D_a and D_b . The resulting degrees of freedom would be:

$$D_c = \frac{s_c^4}{\frac{u_a^4}{D_a} + \frac{u_b^4}{D_b}}$$

For a sample calculation, consider the calculation of the sludge weight of Cd from Tank V-1. The following data are presented:

- Average concentration of Cd in wet sludge:
Standard error of Cd concentration:
Average fraction of dry solids in wet sludge (1996):
Standard error of 1996 dry to wet:
Average fraction of dry solids in wet sludge (1993):
Standard error of 1996 dry to wet:
Average wet sludge density:
Standard error of wet sludge density:
Volume of wet sludge:
Standard error of wet sludge volume:

- $A = 102 \text{ mg/kgws}$
 $s_a = 34 \text{ mg/kgws}$
 $b = 0.443 \text{ kgds/kgws}$
 $s_b = 0.080 \text{ kgds/kgws}$
 $c = 0.28 \text{ kgds/kgws}$
 $s_c = 0.005 \text{ kgds/kgws}$
 $d = 1.017 \text{ kgws/Lws}$
 $s_d = 0.003 \text{ kgws/Lws}$
 $e = 1968 \text{ Lws}$
 $s_e = 125 \text{ Lws}$

Weight of Cadmium (kg) in Sludge (average):

$$WT_{Cd} = \frac{acde}{(1.OE + 6)b} = \frac{(102)(0.28)(1.017)(1968)}{(0.443)(1.OE + 6)} = 0.129 \text{ kg}$$

The propagated standard error is:

$$s_{cd} = \sqrt{\left(\frac{\partial f}{\partial a}\right)^2 s_a^2 + \left(\frac{\partial f}{\partial b}\right)^2 s_b^2 + \left(\frac{\partial f}{\partial c}\right)^2 s_c^2 + \left(\frac{\partial f}{\partial d}\right)^2 s_d^2 + \left(\frac{\partial f}{\partial e}\right)^2 s_e^2}$$

where:

$$f(a, b, c, d, e) = (1.0E - 6)acdeb^{-1}$$

$$\frac{\partial f}{\partial a} = (1.0E - 6)cdeb^{-1}, \quad \frac{\partial f}{\partial b} = -(1.0E - 6)acdeb^{-2}, \quad \frac{\partial f}{\partial c} = (1.0E - 6)adeb^{-1}$$

$$\frac{\partial f}{\partial d} = (1.0E - 6)aceb^{-1}, \quad \frac{\partial f}{\partial e} = (1.0E - 6)acdb^{-1}$$

$$s_{cd} = (1.0E - 6) \sqrt{\frac{c^2 d^2 e^2 s^2}{b^2} + \frac{a^2 c^2 d^2 e^2 s^2}{b^4} + \frac{a^2 d^2 e^2 s^2}{b^2} + \frac{a^2 c^2 e^2 s^2}{b^2} + \frac{a^2 c^2 d^2 s^2}{b^2}}$$

Plugging in the values from above gives:

$$s_{cd} = (1.0E - 6)(49600) = 0.0496 \text{ kg}$$

The mass of cadmium in the sludge phase of Tank V-1 is 0.129 kg with a standard error of 0.05 kg. The associated degrees of freedom that is used for this value is determined by the degrees of freedom of the other values.

- Average concentration of Cd in wet sludge: Da = 2
- Average fraction of dry solids in wet sludge (1996): Db = 4
- Average fraction of dry solids in wet sludge (1993): Dc = 1
- Average wet sludge density: Dd = 2
- Volume of wet sludge: De = 100

The volume of wet sludge was estimated by a ruled measure with a perceived confidence (95%) of ± 1 in. The 1-in. variation was used geometrically to estimate a maximum volume increase. The standard error was back-calculated from this value assuming an infinite degree of freedom. The degree of freedom for the volume was assigned an arbitrarily high value of 100. For the other parameters, the degrees of freedom were determined from the number of actual data points minus one. The resulting degree of freedom from the above calculation is determined as:

$$D_{Cd} = \frac{s_{Cd}^4}{\frac{u_a}{D_a} + \frac{u_b}{D_b} + \frac{u_c}{D_c} + \frac{u_d}{D_d} + \frac{u_e}{D_e}}$$

$$D_{Cd} = \frac{s_{Cd}^4}{\frac{c^4 d^4 e^4 s_a^4}{b^4 D_a} + \frac{a^4 c^4 d^4 e^4 s_b^4}{b^8 D_b} + \frac{a^4 d^4 e^4 s_c^4}{b^4 D_c} + \frac{a^4 c^4 e^4 s_d^4}{b^4 D_d} + \frac{a^4 c^4 d^4 s_e^4}{b^4 D_e}}$$

Substituting the values for the variables yields a degree of freedom of 3.40. If further calculations are made, this degree of freedom along with the standard error will carry forward. If no further immediate calculation is needed, but a bounding value, such as a 95% UCL is desired, the following equation is used:

$$WT_{Cd}|_{95\%UCL} = WT_{Cd} + ts_{Cd}$$

Where t is determined by using the degrees of freedom ($D_{Cd} = 3.4$) and letting $\alpha = 0.05$ (for one-sided, 95%) using the t-distribution curve. In Excel™ spreadsheet calculations, this is the TINV function. This function truncates the degree of freedom calculation, which means a higher t value and, thus, a higher contaminant amount at the 95% UCL. Since this represents a worst-case situation, the truncation was allowed. In this example, assuming all of the Cd in Tank V-1 was in the sludge phase, the 95% UCL for Cd weight in Tank V-1 is:

$$WT_{Cd}|_{95\%UCL} = 0.129 + (2.353)(0.05) = 0.246 \text{ kg of Cd}$$

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Appendix C

Data Spreadsheets from Excel™ File: V-Tank Data Summary

Table G1. Sludge Phase Data for Tanks V-1 and V-2

Sludge Phase Data for Tanks V-1 and V-2.				Reponing Basis	UNIT	Tank V-1						Tank V-2									
Data Set	Matrix	Constituent				Data pt #1	Data pt #2	Data pt #3	Data pt M	Data pt S6	Avg	Standsd Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error		
1980	sludge	Al	Dry weight	wt fraction		0.006					6.00E-03	1.80E-03	0.01					0.01	3.00E-03		
1980	sludge	Ca	Dry weight	wt fraction		0.02					2.00E-02	6.00E-03	0.02					0.02	6.00E-03		
1980	sludge	Cr	Dry weight	wt fraction		0.006					6.00E-03	1.80E-03	0.01					0.01	3.00E-03		
1980	sludge	Fe	Dry weight	wt fraction		0.03					3.00E-02	9.00E-03	0.05					0.05	1.50E-02		
1980	sludge	Mg	Dry Weight	wt fraction		0.03					3.00E-02	9.00E-03	0.02					0.02	6.00E-03		
1980	sludge	Mn	Dry weight	wt fraction		0.008					6.00E-03	2.40E-03	0.02					0.02	6.00E-03		
1980	sludge	Si	Dry weight	wt fraction		0.24					2.40E-01	7.20E-02	0.2					0.2	6.00E-02		
1980	sludge	P	Dry weight	wt fraction		0.11					1.10E-01	3.30E-02	0.12					0.12	3.60E-02		
1996	sludge	Sb	Slurry	wt fraction		2.79E-06	6.31E-06	5.93E-06			5.01E-06	1.12E-06	5.17E-06	3.16E-06				4.18E-06	9.95E-07		
1996	sludge	As	Slurry	wt fraction		2.17E-06	4.01E-06	2.8E-06			2.91E-06	5.61E-07	3.70E-06	1.75E-06				2.73E-06	9.70E-07		
1996	sludge	Ea	Slurry	wt fraction		2.24E-05	2.78E-05	7.48E-05			4.17E-05	1.66E-05	3.73E-05	2.19E-05				2.98E-05	7.69E-06		
1996	sludge	Be	Slurry	wt fraction		2.62E-06	3.95E-06	1.77E-05			8.08E-06	4.81E-06	4.39E-06	2.19E-06				3.29E-06	1.10E-06		
1996	sludge	Cd	slurry	wt fraction		1.07E-05	1.50E-05	3.30E-05			1.98E-05	6.82E-06	2.16E-05	1.38E-05				1.77E-05	3.91E-06		
1996	sludge	Fluoride	Slurry	wt fraction		5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	1.44E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	1.44E-06		
1996	sludge	Pb	Slurry	wt fraction		1.78E-04	2.40E-04	3.18E-04			2.45E-04	4.10E-05	3.10E-04	1.68E-04				2.39E-04	7.10E-05		
1996	sludge	Hg	Slurry	wt fraction		2.95E-04	3.49E-04	2.88E-04			3.04E-04	2.38E-05	2.89E-04	2.52E-04				2.71E-04	1.85E-05		
1996	sludge	Ni	Slurry	wt fraction		5.58E-05	7.49E-05	1.1ME-05			7.81E-05	1.38E-05	7.69E-05	4.21E-05				5.95E-05	1.74E-05		
1996	sludge	Se	Slurry	wt fraction		2.25E-06	2.98E-06	2.72E-06			2.65E-06	1.49E-06	1.56E-06	4.40E-07				1.70E-06	5.60E-07		
1996	sludge	Ag	Slurry	wt fraction		1.41E-05	1.61E-05	8.0E-05			3.89E-05	2.38E-05	2.36E-05	5.0K-05				3.70E-05	1.33E-05		
1996	sludge	Sulfate	Slurry	wt fraction		6.19E-04	2.54E-03	5.71E-04	2.58E-04	8.54E-05	6.15E-04	4.66E-M	5.58E-06	1.05E-04	1.86E-04	2.02E-05			7.0E-05	4.19E-05	
1996	sludge	Tl	Slurry	wt fraction		1.90E-05	2.51E-05	2.39E-05			2.23E-05	1.26E-05	2.36E-05	1.88E-05				2.12E-05	1.18E-05		
1996	sludge	V	Slurry	wt fraction		1.02E-06	1.85E-06	1.77E-06			1.55E-06	2.0ME-07	9.60E-07	7.60E-07				6.60E-07	4.90E-07		
1996	sludge	Zn	Slurry	wt fraction		3.99E-03	5.75E-03	2.99E-03			4.24E-03	6.06E-04	4.25E-04	2.32E-04				3.29E-03	9.67E-05		
1996	sludge	Chloride	Slurry	wt fraction		1.53E-04	9.60E-06	7.60E-04	1.23E-04	1.00E-04	2.29E-M	1.35E-04	1.36E-04	7.32E-05	4.75E-05	4.39E-05			7.52E-05	2.13E-05	
1996	sludge	Na	Slurry	wt fraction		1.84E-04	2.71E-04	1.09E-03			5.07E-04	2.91E-04	3.47E-04	2.02E-04				2.75E-04	7.28E-05		
1996	sludge	K	Slurry	wt fraction		1.89E-04	2.43E-04	1.36E-03			5.88E-04	3.1ME-M	5.33E-04	2.82E-04				4.07E-M	1.26E-04		
1996	sludge	E	Slurry	wt fraction		1.51E-05	2.71E-05	6.61E-05			3.61E-05	1.54E-05	6.25E-06	3.10E-06				4.68E-06	1.58E-06		
1996	sludge	Co	Slurry	wt fraction		1.43E-06	2.19E-06	2.09E-06			1.90E-06	2.36E-07	1.48E-06	1.02E-06				1.25E-06	2.30E-07		
1996	sludge	Cu	Slurry	wt fraction		5.57E-05	7.90E-05	2.34E-04			1.23E-04	5.59E-05	1.47E-04	1.1ME-05				1.40E-M	6.65E-06		
1996	sludge	Sn	Slurry	wt fraction		1.13E-05	2.03E-05	2.17E-05			1.78E-05	3.28E-06	9.34E-06	5.69E-06				7.52E-06	1.83E-06		
1996	sludge	bromide	Slurry	wt fraction		3.98E-06	1.00E-05	7.25E-06	2.92E-05	2.85E-06	5.38E-06	1.42E-06	1.22E-06	1.00E-05	1.00E-05	1.00E-05			7.81E-06	2.20E-06	
1996	sludge	Nitrite	Slurry	wt fraction		2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	5.77E-07	7.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06			2.00E-06	5.77E-07
1996	sludge	Nitrate	Slurry	wt fraction		4.00E-06	3.00E-06	4.00E-06	4.00E-06	4.00E-06	4.00E-06	1.15E-06	4.30C-36	4.00E-06	4.00E-06	4.00E-06	4.00E-06			4.00E-06	1.15E-06
1996	sludge	Phosphate	Slurry	wt fraction		2.38E-06	3.00E-06	3.00E-06	1.71E-05	2.54E-05	1.02E-05	4.71E-05	2.11E-05	1.50E-05	1.78E-05	1.09E-05	1.09E-05			1.82E-05	2.15E-06
1996	sludge	Arachlor-1260	Dry weight	wt fraction		6.60E-04	5.10E-04	1.50E-04	3.40E-04	3.10E-04	3.1WE-M	8.77E-05	2.00E-04	2.50E-04	1.1WE-04	2.60E-04			2.18E-04	2.32E-05	
1993	sludge	TCE	Slurry	wt fraction		2.30E-05	9.10E-07				1.20E-05	1.10E-05	6.00E-07	6.80E-07				6.40E-07	3.40E-07		
1993	sludge	PCE	Slurry	wt fraction		1.00E-03	1.80E-03				1.40E-03	4.00E-04	4.40E-M	5.10E-04				4.75E-04	3.50E-05		
1993	sludge	chloromethane	slurry	wt fraction		2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.80E-07				6.40E-07	3.40E-07		
1993	sludge	bromomethane	Slurry	wt fraction		2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.80E-07				6.40E-07	3.40E-07		
1993	sludge	TCA	Slurry	wt fraction		2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.80E-07				6.40E-07	3.40E-07		
1993	sludge	viny chlone	Slurry	wt fraction		2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.80E-07				6.40E-07	3.40E-07		
1993	sludge	chloroethene	Slurry	wt fraction		2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.80E-07				6.40E-07	3.40E-07		

Table C-1. (continued.)

Sludge Phase Data for Tank V-1 and V-2.

Data Set	Manx	Constituent	Reporting Basis	UNIT	Tank V-1					Tank V-2							
					Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Data pt #1	Data pt #2	Data pt #3			
1993	sludge	methylene chloride	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	5.89E-07		6.40E-07	3.40E-07	
1993	sludge	acetone	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	carbon disulfide	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	1,1-dichloroethylene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.4M-07	3.40E-07	
1993	sludge	1,1-dichloroethane	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	trans-1,2-dichloroethylene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	chloroform	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	1,2-dichloroethane	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	2-bumnone	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	carbon tetrachloride	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	bromodichloromethane	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	1,2-dichloropropane	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	cis-1,3-dichloropropylene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	dibromochloromethane	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	1,1,2-trichloroethane	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	benzene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	trans-1,3-dichloropropylene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	bromform	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	5.89E-07		6.40E-07	3.40E-07	
1993	sludge	4-methyl-2-pentanone	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	2-hexanone	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	1,1,2,2-tetrachloroethane	Slurry	wt fraction	2.70E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	toluene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	chlorobenzene	Slurry	wt fraction	7.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	ethylbenzene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	5.89E-07		6.40E-07	3.40E-07	
1513	sludge	styrene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	cis-1,2-dichloroethylene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1993	sludge	xylene	Slurry	wt fraction	2.20E-06	9.10E-07				1.56E-06	1.10E-06	6.00E-07	6.89E-07		6.40E-07	3.40E-07	
1996	sludge	2-methylnaphthalene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-06	2.10E-05	2.80E-05	1.13E-04	5.83E-05	1.20E-05	3.80E-05	5.70E-05	3.80E-05	3.63E-05	9.24E-06
1996	sludge	1,2-dichlorobenzene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	3.00E-05	2.40E-05	2.20E-05	6.40E-05	3.87E-05
1996	sludge	naphthalene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.70E-05	1.80E-04	1.70E-04	1.40E-05	2.30E-04	1.49E-04	4.67E-05
1996	sludge	bis(2-ethylhexyl)phthalate	Dry weight	wt fraction	1.70E-02	1.40E-02	3.60E-03	1.20E-02	5.90E-03	1.05E-02	2.51E-03	7.0DE-03	1.10E-02	1.50E-03	1.50E-03	5.25E-03	2.31E-03
1996	sludge	1,2,4-trichlorobenzene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1896	sludge	1,3-dichlorobenzene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME 05
1996	sludge	1,4-dichlorobenzene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	2,4-dimethylphenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6.64E-05
1996	sludge	2-methylphenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	4-methylphenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6.64E-05
1996	sludge	di-n-butylphthalate	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6.64E 05
1996	sludge	phenanthrene	Dry weight	wt fraction	2 TOE-M	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	phenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6.64E-05
1996	sludge	Total Carbon	Slurry	wt fraction	7.85E-02	8.58E-02	9.29E-02	8.43E-02	7.91E-02	8.42E-02	2.68E-02	184E-01	7.8EE-02	2.00E-01	.07E-01	1.43E-01	5.77E-02
1996	sludge	2,4,5-trichlorophenol	Dry weight	wt fraction	1.10E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 M E-M	9.20E-04	3.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	2,4,6-trichlorophenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	2,4-dichlorophenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	2,4-dinitrophenol	Dry weight	wt fraction	1.40E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 M E-04	9.20E-04	8.70E-04	9.40E-04	1.11GB	9.58E-04	3.18E-04
1996	sludge	2,4-dinitrotoluene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	2,6-dinitrotoluene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	2-chloronaphthalene	Dry weight	wt fraction	2.70C M	2.40E-04	7.60E-05	2.80E-04	1.80E-04	201E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05

Table C-1. (continued.)

Sludge Phase Data for Tanks V-1 and V-2.

Data Set	Matrix	Constituent	Reporting Basis	UNIT	Tank V-1						Tank V-2						
					Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg
1996	sludge	2-chlorophenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	6.0E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6.64E-05
1996	sludge	2-nitroaniline	Dry weight	wt fraction	1.40E-03	1.20E-03	3.60E-04	1.30E-03	8.20E-04	1.02E-03	4.04E-04	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.59E-04	3.18E-04
1996	sludge	2-niuphenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.80E-05	2.60E-04	1.60E-04	2.01E-M	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	3,3'-dichlorobenzidine	Dry weight	wt fraction	? 70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-M	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	3-nitroaniline	Dry weight	wt fraction	1.40E-03	1.20E-03	3.60E-04	1.30E-03	8.20E-04	1.02E-03	4.04E-04	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	4,6-dinitro-2-methylphenol	Dry weight	wt fraction	1.40E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 ME-04	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	4-bromophenyl-phenyl ether	Dry weight	wt fraction	2.70E-04	2.40E-04	7.80E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	664E-05
1996	sludge	4-chloro-3-methylphenol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.80E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	4-chloroaniline	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	4-chlorophenyl-phenyl ether	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-M	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	4-nitroaniline	Dry weight	wt fraction	1.40E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 ME- M	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	4-niuphenol	Dry weight	wt fraction	1.40E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 ME- M	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	acenaphthene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	acenaphthylene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	anthracene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	benzo(a)anthracene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-M	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	664E-05
1996	sludge	benzo(a)pyrene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	benzo(b)fluoranthene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	664E-05
1996	sludge	benzo(g,h,i)perylene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	benzo(k)fluoranthene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	benzoic acid	Dry weight	wt fraction	1.40E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 ME- M	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	benzyl alcohol	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	butylbenzylphthalate	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	carbazole	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	chrysene	Dry weight	wt fraction	7.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	d-n-octylphthalate	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	dibenzo(a,h)anthracene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	664E-05
1996	sludge	dibenzofuran	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	diethylphthalate	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-M	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	dimethylphthalate	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-M	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	nuoranthene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	nuorene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	664E-05
1996	sludge	hexachlorobenzene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	hexachlorobutadiene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	hexachlorocyclopentadiene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	hexachloroethane	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	indeno(1,2,3-cd)pyrene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	isophorone	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	N-nitroso-di-n-propylamine	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	N-nitrosodiphenylamine	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	nitrobenzene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	pentachlorophenol	Dry weight	wt fraction	1.40E-03	1.20E-03	3.80E-04	1.30E-03	8.20E-04	1.02E-03	4 ME- M	9.20E-04	8.70E-04	9.40E-04	1.10E-03	9.58E-04	3.18E-04
1996	sludge	pyrene	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	pyridine	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	bis(2-chloroethoxy)methane	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	Sludge	bis(2-chloroethyl)ether	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6 ME-05
1996	sludge	bis(2-chloroisopropyl)ether	Dry weight	wt fraction	2.70E-04	2.40E-04	7.60E-05	2.60E-04	1.60E-04	2.01E-04	7.79E-05	1.80E-04	1.70E-04	1.90E-04	2.30E-04	1.93E-04	6.64E-05

Sludge Phase Data for Tank V-3 and V-9				Tank V-3								Tank V-4								Degree of Freedom			
Data Set	Matra	Constituent	Reponing Basis	UNIT	Standard Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Data pt #1	Data pt #2	Dam pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Tank V-1	Tank V-2	Tank v-3	Tank v-9
1980	sludge	Al	Dry weight	wt fraction	3.00E-03	0008					0.008	2.40E-03	0008					0.008	2.40E-03	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	Ca	Dry weight	wt fraction	6.00E-03	002					0.002	6.00E-03	002					0.002	6.00E-03	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	Cr	Dry weight	wt fraction	3.00E-03	00008					0.0008	2.40E-04	00056					0.00056	1.68E-03	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	Fe	Dry weight	wt fraction	1.50E-02	005					0.005	1.50E-02	0043333					0.0043333	1.30E-02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	Mg	Dry weight	wt fraction	6.00E-03	003					0.003	9.00E-03	0026667					0.0026667	8.00E-03	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	Mn	Dry Weight	wt fraction	6.00E-03	001					0.001	3.00E-03	0012667					0.0012667	3.80E-03	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	Si	Dry weight	wt fraction	6.00E-02	0.19					0.19	5.70E-02	0.21					0.21	6.30E-02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1980	sludge	P	Dry weight	wt fraction	3.60E-02	013					0.13	3.90E-02	0.12					0.12	3.60E-02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
1996	sludge	Sb	Slurry	wt fraction	9.95E-07	1.63E-06	2.54E-06	1.85E-06	3.43E-06		2.36E-06	4.05E-07	6.40E-06	2.22E-05				1.43E-05	7.90E-06	2.00E+00	1	3	1
1996	sludge	As	Slurry	wt fraction	9.70E-07	2.82E-06	2.06E-06	1.24E-06	2.07E-06		2.05E-06	3.23E-07	3.70E-06	3.80E-06				3.75E-06	1.90E-06	2.00E+00	1	3	1
1996	sludge	Ea	Slurry	wt fraction	7.69E-06	2.20E-05	2.69E-05	2.96E-05	3.35E-05		2.80E-05	2.41E-06	2.32E-04	5.15E-04				3.74E-04	1.42E-04	2.00E+00	1	3	1
1996	sludge	Be	Slurry	wt fraction	1.10E-06	2.25E-06	3.1M-06	3.1E-06	5.7M-06		3.69E-06	7.38E-07	2.46E-05	2.57E-05				2.52E-05	5.50E-07	2.00E+00	1	3	1
1996	sludge	Cd	Slurry	wt fraction	3.91E-06	1.07E-05	1.36E-05	9.87E-06	1.56E-05		1.24E-05	1.32E-06	2.25E-05	3.09E-05				2.67E-05	4.20E-06	2.00E+00	1	3	1
1996	sludge	Fluoride	Slurry	wt fraction	144E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06		5.00E-06	1.44E-06	7.41E-06	5.75E-06				6.58E-06	8.30E-07	4.00E+00	3	3	1
1996	sludge	Pb	Slurry	wt fraction	7.10E-05	2.1M-04	2.06E-04	1.12E-04	1.78E-04		1.75E-04	2.19E-05	5.40E-04	5.92E-04				5.66E-04	2.60E-05	2.00E+00	1	3	1
1996	sludge	Hg	Slurry	wt fraction	1.85E-05	2.97E-04	2.68E-04	2.60E-04	2.87E-04		2.78E-04	8.50E-06	2.05E-03	2.11E-03				2.08E-03	3.00E-05	2.00E+00	1	3	1
1996	sludge	Ni	Slurry	wt fraction	1.74E-05	2.95E-05	7.1W-05	5.39E-05	8.15E-05		5.89E-05	1.13E-05	3.54E-04	4.35E-04				3.95E-04	4.05E-05	2.00E+00	1	3	1
1996	sludge	Se	slurry	wt fraction	5.60E-07	2.09E-06	2.38E-06	2.25E-06	2.68E-06		2.35E-06	7.77E-07	4.10E-06	4.20E-06				4.15E-06	2.10E-06	2.00E+00	1	3	1
1996	sludge	Ag	Slurry	wt fraction	1.33E-06	6.37E-06	8.26E-06	3.18E-05	2.16E-05		1.70E-05	5.99E-06	6.57E-04	6.46E-04				6.52E-04	5.50E-06	2.00E+00	1	3	1
1996	sludge	Sulfate	Slurry	wt fraction	4.19E-05	3.32E-04	1.12E-04	2.50E-05	3.35E-05		1.26E-04	7.14E-05	4.53E-05	4.45E-05				4.49E-05	4.00E-07	4.00E+00	3	3	1
1996	sludge	"	slurry	wt fraction	1.18E-05	1.76E-05	2.01E-05	1.90E-05	2.27E-06		1.47E-05	5.80E-06	5.90E-05	7.80E-06				6.85E-06	9.1M-07	2.00E+00	1	3	1
1996	sludge	V	Slurry	wt fraction	4.80E-07	1.61E-06	1.09E-06	3.30E-07	1.11E-06		1.1ME-06	2.64E-07	5.40E-06	6.80E-06				6.10E-06	7.00E-07	2.00E+00	1	3	1
1996	sludge	Zn	Slurry	wt fraction	9.67E-06	3.81E-04	9.99E-04	4.12E-04	6.60E-04		6.13E-04	1.43E-04	1.79E-03	1.71E-03				1.75E-03	4.00E-05	2.00E+00	1	3	1
1996	sludge	Chloride	Slurry	wt fraction	2.13E-05	6.43E-05	6.01E-05	5.48E-05	5.56E-05		5.87E-05	2.20E-06	4.83E-04	5.03E-04				4.93E-04	1.00E-05	4.00E+00	3	3	1
1996	sludge	Na	Slurry	wt fraction	7.28E-05	6.74E-05	1.81E-04	3.23E-04	4.68E-04		2.60E-04	8.68E-05	1.95E-03	1.28E-03				1.62E-03	3.35E-04	2.00E+00	1	3	1
1996	sludge	K	Slurry	wt fraction	1.26E-04	1.21E-04	1.39E-04	1.73E-04	2.58E-04		1.73E-04	3.03E-05	1.03E-02	6.87E-03				8.59E-03	1.72E-03	2.00E+00	1	3	1
1996	sludge	B	Slurry	wt fraction	1.56E-06	4.23E-06	5.57E-06	6.0E-06	8.21E-06		6.05E-06	8.28E-07	4.26E-05	4.73E-05				4.50E-05	2.35E-06	2.00E+00	1	3	1
1996	sludge	Co	Slurry	wt fraction	2.30E-07	1.10E-06	1.39E-06	7.40E-07	1.80E-06		1.26E-06	2.24E-07	4.20E-06	5.80E-06				5.50E-06	8.00E-07	2.00E+00	1	3	1
1996	sludge	Cu	Slurry	wt fraction	6.65E-06	4.30E-05	4.88E-05	3.32E-05	4.03E-05		4.13E-05	3.23E-06	3.26E-04	4.31E-04				3.80E-04	5.15E-05	2.00E+00	1	3	1
1996	sludge	Sn	Slurry	wt fraction	1.83E-06	8.98E-06	9.36E-06	5.82E-06	8.18E-06		8.09E-06	7.1W-07	2.90E-05	3.34E-05				3.15E-05	1.90E-06	2.00E+00	1	3	1
1996	sludge	Chromate	Slurry	wt fraction	2.20E-06	1.00E-05	1.00E-05	1.00E-05	1.00E-05		1.00E-05	2.89E-06	1.23E-05	1.23E-05				1.23E-05	0.00E+00	4.00E+00	3	3	1
1996	sludge	Nitrate	Slurry	wt fraction	5.77E-07	2.00E-06	2.00E-06	2.00E-06	2.00E-06		2.00E-06	5.77E-07	3.45E-05	3.67E-05				3.56E-06	1.10E-06	4.00E+00	3	3	1
1996	sludge	Nitrite	Slurry	wt fraction	1.15E-06	4.00E-06	4.00E-06	4.00E-06	4.00E-06		4.00E-06	1.15E-06	7.11E-06	5.00E-06				3.58E-06	3.53E-06	4.00E+00	3	3	1
1996	sludge	Phosphate	Slurry	wt fraction	2.15E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06		3.00E-06	8.66E-07	1.09E-06	8.00E-07				9.45E-07	1.45E-07	4.00E+00	3	3	1
1996	sludge	Aroclor 1260	Dry weight	wt fraction	2.32E-05	3.70E-04	4.00E-04	2.10E-04	2.60E-04		3.10E-04	4.49E-05	3.10E-04	2.60E-04				2.85E-04	2.50E-05	4.00E+00	3	3	1
1993	sludge	TCE	Slurry	wl fraction	3.40E-07	E.30E-07	6.00E-07				6.15E-07	3.15E-07	1.40E-02	2.20E-02				1.80E-02	4.00E-03	1.00E+00	1	1	1
1993	sludge	PCE	slurry	wt fraction	3.5M-05	4.30E-04	4.80E-04				4.55E-04	2.50E-05	4.60E-04	6.00E-04				5.30E-04	7.00E-05	1.00E+00	1	1	1
1993	sludge	chloromethane	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07				6.15E-07	3.15E-07	5.90E-05	8.00E-05				6.95E-05	1.05E-05	1.00E+00	1	1	1
1993	sludge	bromomethane	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07				6.15E-07	3.15E-07	1.20E-04	1.40E-04				1.30E-04	1.00E-05	1.00E+00	1	1	1
1993	sludge	TCA	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07				6.15E-07	3.15E-07	1.80E-03	2.60E-03				2.20E-03	4.00E-04	1.00E+00	1	1	1
1993	sludge	vinyl Chloride	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07				6.15E-07	3.15E-07	1.20E-04	1.20E-04				1.20E-05	6.00E-05	1.00E+00	1	1	1
1993	sludge	chloroethane	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07				6.15E-07	3.15E-07	2.50E-04	2.50E-04				2.50E-04	1.25E-04	1.00E+00	1	1	1
1993	sludge	methylene chloride	Slurry	wt fraction	3.40E-07	E.30E-07	5.00E-07				6.15E-07	3.15E-07	2.50E-04	2.50E-04				2.50E-04	1.25E-04	1.00E+00	1	1	1
1993	sludge	acetone	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07				6.15E-07	3.15E-07	1.40E-03	1.40E-03				1.40E-03	7.00E-04	1.00E+00	1	1	1
1993	sludge	carbon disulfide	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07				6.15E-07	3.15E-07	1.20E-04	1.20E-04				1.20E-04	6.00E-05	1.00E+00	1	1	1
1993	sludge	1,1 dichloroethylene	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07				6.15E-07	3.15E-07	1.20E-04	1.20E-04				1.20E-04	6.00E-05	1.00E+00	1	1	1
1993	sludge																						

Table C-2. (continued).

SludgePhaseDataforTankV.3_and V-9										Tank V-3										Tank V-4										Degree of Freedom			
Data Set	Matrix	Constituent	Reporting Basis	UNIT	Standard Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Tank v-1	Tank v-2	Tank v-3	Tank V-9										
1993	sludge	trans-1,2-dichloroethylene	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07			6.15E-07	3.15E-07	8.80E-05	8.80E-05					8.80E-05	4.40E-05	1.00E+00	1	1	1	1									
1993	sludge	chloroform	slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1993	sludge	1,2-dichloroethane	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07			6.15E-07	3.15E-07	2.50E-04	2.50E-04					2.50E-04	1.25E-04	1.00E+00	1	1	1	1									
1993	sludge	2-butanone	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07			6.15E-07	3.15E-07	7.50E-04	7.50E-04					7.50E-04	3.75E-04	1.00E+00	1	1	1	1									
1993	sludge	carbon tetrachloride	Slurry	wt fraction	3.40E-07	6.30E-07	5.00E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1883	sludge	bromodichloromethane	Slurry	wt fraction	3.40E-07	6.30E-07	6.00E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1993	sludge	1,2-dichloropropane	Slurry	wt fraction									6.15E-07	3.15E-07	2.50E-04	2.50E-04					2.50E-04	1.25E-04	1.00E+00	1	1	1	1						
1993	sludge	cis-1,3-dichloropropylene	Slurry	wt fraction									6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1						
1993	sludge	dibromochloromethane	Slurry	wt fraction									6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1						
1993	sludge	1,1,2-trichloroethane	Slurry	wt fraction									6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1						
1993	sludge	benzene	Slurry	wt fraction	3.40E-07	6.30E-07	6.00E-07			6.15E-07	3.15E-07	2.50E-04	2.50E-04					2.50E-04	1.25E-04	1.00E+00	1	1	1	1									
1883	sludge	trans-1,3-dichloropropylene	Slurry	wt fraction	3.40E-07	6.30E-07	6.00E-07			6.15E-07	3.15E-07	2.50E-04	2.50E-04					2.50E-04	1.25E-04	1.00E+00	1	1	1	1									
1993	sludge	brornitron	Slurry	wt fraction	3.40E-07	6.30E-07	6.00E-07			6.15E-07	3.15E-07	5.00E-04	5.00E-04					5.00E-04	2.50E-04	1.00E+00	1	1	1	1									
1883	sludge	4-methyl-2-pentanone	Slurry	wt fraction	3.40E-07	6.30E-07	6.00E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1993	sludge	2-hexanone	Slurry	wt fraction	3.40E-07	5.30E-07	5.00E-07			6.15E-07	3.15E-07	5.00E-04	5.00E-04					5.00E-04	2.50E-04	1.00E+00	1	1	1	1									
1993	sludge	1,1,2,2-tetrachloroethane	Slurry	wt fraction	3.40E-07	5.00E-07	6.15E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6%-05	1.00E+00	1	1	1	1									
1993	sludge	toluene	Slurry	wt fraction	3.40E-07	5.00E-07	6.15E-07			6.15E-07	3.15E-07	2.50E-04	2.50E-04					2.50E-04	12K-04	1.00E+00	1	1	1	1									
1993	sludge	chlorobenzene	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1993	sludge	ethylbenzene	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1993	sludge	styrene	Slurry	wt fraction	3.40E-07	5.30E-07	6.00E-07			6.15E-07	3.15E-07	2.50E-04	2.50E-04					2.50E-04	125E-04	1.00E+00	1	1	1	1									
1993	sludge	cis-1,2-dichloroethylene	Slurry	wt fraction	3.40E-07	5.00E-07	6.15E-07			6.15E-07	3.15E-07	1.10E-04	1.10E-04					1.10E-04	5.50E-05	1.00E+00	1	1	1	1									
1993	sludge	xylene	Slurry	wt fraction	3.40E-07	5.00E-07	6.15E-07			6.15E-07	3.15E-07	1.20E-04	1.20E-04					1.20E-04	6.00E-05	1.00E+00	1	1	1	1									
1996	sludge	2-methylnaphthalene	Dry weight	wt fraction	9.24E-06	16.0E-05	9.90E-06	3.20E-05	1.50E-05	182E-05	4.78E-06	1.10E-04	1.00E-M					1.05E-04	5.00E-08	4.00E+00	3	3	1	1									
1996	sludge	1,2-dichlorobenzene	Dry weight	wt fraction	3.87E-05	16.0E-05	11.0E-05	5.00E-05	2.60E-05	258E-05	8.66E-06	3.50E-04	2.80E-04					3.15E-04	3.50E-05	4.00E+00	3	3	1	1									
1996	sludge	naphthalene	Dry weight	wt fraction	4.67E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	4.40E-05	3.80E-05					4.10E-04	3.00E-06	4.00E+00	3	3	1	1									
1996	sludge	bis(2-ethylhexyl)phthalate	Dry weight	wt fraction	231E-03	9.60E-03	120E-02	120E-02	8.40E-03	105E-02	9.00E-M	1.10E-03	9.50E-04					1.03E-03	7.50E-05	4.00E+00	3	3	1	1									
1996	sludge	12,4-trichlorobenzene	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	3.20E-05	2.60E-05					2.90E-05	3.00E-06	4.00E+00	3	3	1	1									
1996	sludge	13-dichlorobenzene	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	5.70E-04	1.80E-04	180E-04	7.79E-05	1.50E-05	1.30E-05					1.45E-05	1.50E-06	4.00E+00	3	3	1	1									
1996	sludge	1,4-dichlorobenzene	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	9.00E-05	7.30E-05					8.15E-05	8.50E-06	4.00E+00	3	3	1	1									
1996	sludge	2,4-dimethylphenol	Dry weight	wt fraction	6.05E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	2.70E-04	2.60E-04					2.65E-04	5.00E-08	4.00E+00	3	3	1	1									
1996	sludge	2-methylphenol	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	4.90E-04	5.00E-04					4.95E-04	5.00E-06	4.00E+00	3	3	1	1									
1996	sludge	4-methylphenol	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	2.60E-04	2.60E-04					2.60E-04	0.00E+00	4.00E+00	3	3	1	1									
1996	sludge	di-n-butylphthalate	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	1.50E-05	1.30E-05					1.40E-03	1.00E-06	4.00E+00	3	3	1	1									
1996	sludge	phenanthrene	Dry weight	wt fraction			1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	2.10E-05	1.90E-05					2.00E-05	1.00E-06	4.00E+00	3	3	1	1									
1996	sludge	phenol	Dry weight	wt fraction			1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	6.80E-05	7.10E-05					6.95E-05	1.50E-06	4.00E+00	3	3	1	1									
1996	sludge	Total Carbon	Slurry	wt fraction			1.10E-01	1.13E-01	1.44E-01	115E-01	4.16E-02	1.00E-02	1.29E-02					1.15E-02	6.46E-03	4.00E+00	3	3	1	1									
1996	sludge	2,4,5-trichlorophenol	Dry weight	wt fraction	3.18E-04	8.70E-04	5.00E-03	8.90E-04	8.90E-04	8.90E-04	3.75E-M	7.70E-04	5.70E-04					7.20E-04	3.85E-04	4.00E+00	3	3	1	1									
1996	sludge	2,4,6-trichlorophenol	Dry weight	wt fraction	6.64E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	1.50E-04	1.33E-04					140E-04	7.50E-05	4.00E+00	3	3	1	1									
1996	sludge	2,4-dichlorophenol	Dry weight	wt fraction	6.05E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	1.50E-04	1.30E-04					140E-04	7.50E-05	4.00E+00	3	3	1	1									
1996	sludge	2,4-dinitrophenol	Dry weight	wt fraction	3.18E-04	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	7.70E-04	8.70E-04					7.20E-04	3.85E-04	4.00E+00	3	3	1	1									
1996	sludge	2,4-dinitrotoluene	Dry weight	wt fraction	6.05E-05	17ff-04	1.00E-04	2.70E-04	1.80E-04	180E-04	7.79E-05	1.50E-04	1.30E-04					140E-04	7.50E-05	4.00E+00	3	3	1	1									
1996	sludge	2-chloronaphthalene	Dry weight	wt fraction	6.64E-05	17ff-04	1																										

Table C-2. (continued).

Sludge Phase Data for Tank V-3 and V-9										Tank V-3										Tank V-9										Degree of Freedom			
Cata	Set	Matrix	Constituent	Reponing Basis	UNIT	Standard Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard Error	Tank V-1	Tank v-2	Tank v-3	Tank V-9									
1996	sludge	3,3'-dichlorobenzidine	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	3-nitroaniline	Dry weight	wt fraction	3.18E-04	8.70E-04	5.00E-04	1.30E-03	8.90E-04	8.90E-04	3.75E-04	7.70E-04	6.70E-04	7.20E-04	3.85E-04	4.00E+00	3	3	1														
1996	sludge	4,6-dinitro-2-methylphenol	Dry weight	wt fraction	3.18E-04	8.70E-04	5.00E-04	1.30E-03	8.90E-04	6.00E-04	3.75E-04	7.70E-04	6.70E-04	7.20E-04	3.85E-04	4.00E+00	3	3	1														
1996	sludge	4-bromophenyl-phenyl emer	Dry Weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	4-chloro-3-methylphenol	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	4-chloroaniline	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	4-chlorophenyl-phenyl emer	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	4-nitroaniline	Dryweight	wt fraction	3.18E-04	8.70E-04	5.00E-04	*3.0E-03	8.90E-04	8.90E-04	3.75E-04	7.70E-04	6.70E-04	7.20E-04	3.85E-04	4.00E+00	3	3	1														
1996	sludge	4-nitrophenol	Dry weight	wt fraction	3.18E-04	8.70E-04	5.00E-04	*3.0E-03	8.90E-04	8.90E-04	3.75E-04	7.70E-04	6.70E-04	7.20E-04	3.85E-04	4.00E+00	3	3	1														
1996	sludge	acenaphthene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	Sludge	acenaphthylene	Dry Weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	anthracene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	benzo(e)anthracene	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	benzo(a)pyrene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	benzo(b)fluoranthene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	benzo(g,h,i)perylene	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	benzo(k)fluoranthene	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	benzoic acid	Dry weight	wt fraction	3.18E-04	8.70E-04	5.00E-04	1.30E-03	8.90E-04	8.90E-04	3.75E-04	7.70E-04	6.70E-04	7.20E-04	3.85E-04	4.00E+00	3	3	1														
1996	sludge	benzyl alcohol	Dryweight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	butylbenzylphthalate	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	Sludge	carbazole	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	chrysene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	di-n-octylphthalate	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	dibenz(a,h)anthracene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	dibenzo furan	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	diethylphthalate	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	dimethylphthalate	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	fluoranthene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	fluorene	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	hexachlorobenzene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	hexachlorobutadiene	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	hexachlorocyclopentadiene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	hexachloroethane	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	Sludge	indeno(1,2,3-cd)pyrene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	Sludge	isophorone	Dry Weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	N-nitroso-di-n-propylamine	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	N-nitrosodiphenylamine	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	nitrobenzene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	pentachlorophenol	Dry weight	wt fraction	3.18E-04	8.70E-04	5.00E-04	1.30E-03	8.90E-04	8.90E-04	3.75E-04	7.70E-04	6.70E-04	7.20E-04	3.85E-04	4.00E+00	3	3	1														
1996	sludge	pyrene	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	pyridine	Dry weight	wt fraction	6.64E-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	bis(2-chlorooxy)methane	Dry Weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	bis(2-chloroethyl)ether	Dry weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														
1996	sludge	bis(2-chloroisopropyl)ether	Dry Weight	wt fraction	6 ME-05	1.70E-04	1.00E-04	2.70E-04	1.80E-04	1.80E-04	7.79E-05	1.50E-04	1.30E-04	1.40E-04	7.50E-05	4.00E+00	3	3	1														

Table G 3. Liquid Phase Data for Tanks V-1, V-2, V-3, and V-9, and Degree of Freedom

LiquidPhase-All tanks

Data Set	Matrix	Constituent	UNIT	Tank V-1				Tank V-2				Tank V-3				Tank V-9				Degree of Freedom			
				Data pt #1	Data pt #2	Avg	Standard Error	Data pt #1	Data pt #2	Avg	Standard Error	Data pt #1	Data pt #2	Avg	Standard Error	Data pt #1	Avg	Standard Error	Tank V-1	Tank V-2	Tank V-3	Tank V-9	
1993	aqueous	Al	mg/L	2.81	3.1	2.96E+00	1.45E-01	0.208	0.208	2.08E-01	1.0ME-01	3.208	3.208	2.08E-01	1.04E-01	0.236	0.236	1.18E-01	1	1	1	1	
1993	aqueous	Ca	mg/L	47.6	47.4	47.5E+01	1.00E-01	649	591	6.20E+00	2.90E-01	514	49	5.02E-01	1.20E+00	90.6	906	27.18	1	1	1	100	
1993	aqueous	Cr	mg/L	0.398	0.323	3.61E-01	3.75E-02	0.0392	0.0392	3.92E-02	1.96E-02	0.0106	0.0106	0.00E+00	1.07E-02	5.30E 03	146	146	0.0438	1	1	1	100
1993	aqueous	Fe	mg/L	12	11	1.15E+01	5.00E-01	0.437	0.464	4.51E-01	1.35E-02	3.27	3.118	1.23E-01	6.35E-02	179	179	179	537	1	1	1	100
1993	aqueous	Mg	mg/L	197	231	2.14E+01	1.70E+00	146	131	1.39E+01	7.50E-01	179	143	1.61E+01	1.80E+00	208	208	624	1	1	1	100	
1993	aqueous	Mn	mg/L	2.78	252	2.85E+00	1.30E-01	0.438	0.475	4.57E-01	1.85E-02	0.746	0.765	7.56E-01	9.50E-03	235	235	7.05	1	1	1	100	
1993	aqueous	Si	mg/L	166	149	1.58E+01	8.50E-01	7.77	6.17	6.97E+00	8.00E-01	746	648	6.97E+00	4.90E-01	25	25	7.5	1	1	1	100	
1996	aqueous	P	mg/L	0.30	0.45	3.73E-01	7.25E-02	5.28	5.83	5.55E+00	2.75E-01	0.63	6.28E	6.28E-01	0.18825	0.605	0.605	0.01815	1	1	1	100	
1993	aqueous	Sb	mg/L	0.215	0.236	2.26E-01	1.05E-02	0.215	0.215	2.15E-01	0.000E+00	0.218	0.215	2.17E-01	1.50E-03	0.162	0.162	8.10E-02	1	1	1	1	
1993	aqueous	As	mg/L	0.012	0.013	1.25E-02	5.00E-04	0.005	0.005	5.00E-03	0.00E+00	0.0044	0.0044	4.40E-03	2.20E-03	0.232	0.232	1.16E-01	1	1	1	1	
1993	aqueous	Ea	mg/L	8.25	0.253	2.52E-01	1.25E-01	0.183	0.183	1.63E-01	8.15E-02	3.91	3.89	1.90E-01	9.55E-02	102	102	0.0306	1	1	1	100	
1993	aqueous	Be	mg/L	0.013	0.0109	1.20E-02	5.45E-03	0.0036	0.191	9.73E-02	9.55E-02	0.0035	0.0037	3.60E-03	1.75E-03	0.065	0.065	0.0195	1	1	1	100	
1993	aqueous	Cd	mg/L	0.049	0M2	4.55E-02	3.50E-03	0.0044	0.0044	4.40E-03	2.20E-03	0.0044	0.0044	4.40E-03	2.20E-03	19	19	0.057	1	1	1	100	
1996	aqueous	Fluoride	mg/L	5	5.00E+00	2.50E+00	5	5	5.00E+00	2.50E+00	5	5.00E+00	2.50E+00	0.00144	0.00144	0.000432	1	1	1	1	100		
1993	aqueous	Pb	mg/L	0.842	0.716	7.79E-01	6.30E-02	0.0337	0.0337	3.70E-03	1.85E-03	0.033	0.068	5.05E-02	1.75E-02	0.942	0.942	0.2826	1	1	1	100	
1993	aqueous	Hg	mg/L	0.367	0.369	3.68E-01	1.00E-03	0.001	0.001	1.00E-03	5.00E-04	0.001	0.3031	1.00E-03	5.00E-04	0.563	0.563	0.1689	1	1	1	100	
1993	aqueous	Ni	mg/L	0.482	0.529	5.06E-01	2.35E-02	0.457	0.411	4.34E-01	2.30E-02	0.185	0.183	1.84E-01	1.00E-03	13.8	13.8	4.14	1	1	1	100	
1993	aqueous	Se	mg/L	0.005	0.005	5.00E-03	2.50E-03	0.005	0.005	5.00E-03	2.50E-03	0.005	3.005	5.00E-03	2.50E-03	0.256	0.256	1.28E-01	1	1	1	1	
1993	aqueous	Ag	mg/L	0.059	0.043	5.10E-02	8.00E-03	0.3324	0.0024	2.40E-03	1.20E-03	0.0024	0.0024	2.40E-03	1.20E-03	0.0315	0.0315	OM15	1.58E-02	1	1	1	
1996	aqueous	Sulfate	mg/L	1280	4840	4.00E+01	1.78E-01	5.56	18.00	1.18E+01	6.22E+00	15.70	15.70	15.70	471	0.29	0.29	0.0087	1	1	100	100	
1993	aqueous	Tl	mg/L	3.0051	0.004	4.55E-03	5.50E-04	0.004	0.004	4.00E-03	2.00E-03	0.004	0.004	4.00E-03	2.00E-03	0.37	0.37	1.85E-01	1	1	1	1	
1993	aqueous	V	mg/L	0.06	0.0598	5.99E-02	3.00E-02	0.0486	0.0486	4.91E-02	243E-02	0.047	0.0478	4.74E-02	2.35E-02	0.022	0.022	1.10E-02	1	1	1	1	
1993	aqueous	Zn	mg/L	60.3	561	5.82E+01	2.10E+00	0.164	0.129	1.47E-01	1.75E-02	0.964	0.0724	8.44E-01	1.20E-01	18.2	18.2	546	1	1	1	100	
1996	aqueous	Chloride	mg/L	240	232	2.36E-02	4.00E+00	136	102	1.19E+02	1.70E+01	762	762	228E	10.9	109	327	1	1	100	100		
1993	aqueous	Na	mg/L	572	588	5.80E+02	8.00E+00	406	407	4.08E+02	5.00E-01	167	162	1.65E+02	2.50E+00	3150	3150	945	1	1	1	100	
1993	aqueous	K	mg/L	104	102	1.03E+02	1.00E+00	276	272	2.74E+02	2.00E+00	517	477	4.97E+01	2.00E+00	8340	8340	2502	1	1	1	100	
1996	sludge	B	mg/L	52.2	533	5.28E+01	5.50E-01	2.17	185	2.01E+00	1.60E-01	728	6.93	7.11E+00	1.75E-01	37.6	37.6	1128	1	1	1	100	
1996	sludge	Co	mg/L	0.043	0.045	4.40E-02	2.15E-02	0.035	0.034	3.45E-02	1.75E-02	3.036	0.034	3.50E-02	1.80E-02	0.116	0.116	0.00348	1	1	1	100	
1996	sludge	a	mg/L	0.25	0.19	2.20E-01	3.00E-02	0.011	0.013	1.20E-02	5.50E-03	0.0095	0.011	9.75E-03	4.75E-03	2.98	2.98	0.0894	1	1	1	100	
1996	sludge	Sn	mg/L	0	0	0.00E+00	0.00E+00	0	0	0.00E+00	0.00E+00	0	0	0	0	0.116	0.116	5.80E-02	1	1	1	1	
1996	sludge	Bromide	mg/L	5.67	511	5.39E+00	280E-01	122	122	1.22E+00	0.00E+00	18	18	0.054	0.0592	0.01776	1	1	100	100			
1996	sludge	Nitrate	mg/L	2	2	2.00E+00	1.00E+00	2	2	2.00E+00	1.00E+00	0.172	0.172	0.0516	0.0632	0.00532	0.01896	1	1	100	100		
1996	sludge	Nitrite	mg/L	4	4	4.00E+00	2.00E+00	4	4	4.00E+00	2.00E+00	5	4	2.00E+00	0.111	0.111	5.55E-02	1	1	1	1		
1996	sludge	Phosphate	mg/L	12	178	1.49E+00	2.90E-01	21.1	23.3	2.22E+01	1.10E+00	251	251	0.0753	0.0024	0.00072	1	1	100	100			
1996	aqueous	Aroclor-1260	mg/L	0.1	0.1	1.00E-01	5.00E-02	0.1	0.1	1.00E-01	5.00E-02	0.1	0.1	5.00E-02	0.036	0.036	0.00108	1	1	1	100		
1993	aqueous	TCE	mg/L	0.16	0.16	0.048	0.3	0.3	0	0	0.2	0.2	0.06	410	410	123	100	100	100	100			
1993	aqueous	PCE	mg/L	0.14	0.14	0M2	0.31	0.01	0.01	0.001	0.001	0.001	0.001	5.00E 03	17	17	8.50E+00	100	1	1	1		
1993	aqueous	chloromethane	mg/L	0.01	0.01	0.003	0.01	0.01	0.01	0.001	0.001	0.01	0.01	0.00M	3.7	3.7	1.65E+00	100	100	100	100		
1993	aqueous	bromomethane	mg/L	0.01	0.01	5.00E-03	0.01	0.01	0.01	5.00E-03	0.31	0.01	5.00E-03	7.8	7.8	3.90E+00	1	1	1	1			
1993	aqueous	TCA	mg/L	0.01	0.01	5.00E-03	0.01	0.01	0.01	5.00E-03	0.01	0.01	5.00E-03	58	58	174	1	1	1	1			
1993	aqueous	vinyl chloride	mg/L	0.01	0.01	5.00E-03	0.02	0.02	0.006	0.011	0.011	0.0033	0.011	13	13	6.50E+00	1	100	100	1			
1993	aqueous	chloroethane	mg/L	0.01	0.01	5.00E-03	0.01	0.01	0.01	5.00E-03	0.01	0.01	5.00E-03	17	17	8.50E+00	1	1	1	1			
1993	aqueous	methylene Chloride	mg/L	0.01	0.01	5.00E-03	0.01	0.01	0.01	5.00E-03	0.31	0.01	5.00E-03	59	59	177	1	1	1	100			

Tabled C-3.(continued)

LiquidPhase-All tanks

Data Set	Matrix	Constituent	UNIT	Tank V-1			Tank V-2			Tank V-3			Tank V-9			Degree of Freedom						
				Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard Error	Data pt #1	Avg	Standard Error	Tank V-1	Tank V-2	Tank V-3	Tank V-9
1993	aqueous acetone	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.31		0.01	5.00E-03	0.31		110	1.3	5.50E+01	1	1	1	1
1993	aqueous carbon disulfide	mg/L	0.01	0.01	5.00E-03	0.11		0.01	5.00E-03	0.31		0.01	5.00E-03	0.31		13	3	6.50E+00	1	1	1	1
1993	aqueous 1,1-dichloroethylene	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	0.1		11	5.50E+00	1	1	1	1	
1993	aqueous 1,1-dichloroethane	mg/L	0.51	0.01	5.00E-03	0.036		0.036	0.0108	0.019		0.019	0.0057	3.8	3.8	1.90E+00	1	100	100	100	1	
1993	aqueous 1,2-dichloroethylene	mg/L	0.058	0.058	0.0174	0.37		0.37	0.111	0.2		0.2	0.06	8.5	8.5	4.25E+00	100	100	100	100	1	
1993	aqueous chloroform	mg/L	0.01	0.01	5.00E-03	0.01		0.01	5.00E-03	0.01		0.01	5.00E-03	0.01		10	10	5.00E+00	1	1	1	1
1993	aqueous 1,2-dichloroethane	mg/L	0.011	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	0.25		25	25	1.25E+01	1	1	1	1
1993	aqueous 2-butanone	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	56		56	280E+01	1	1	1	1	
1993	aqueous carbon tetrachloride	mg/L	0.01	0.01	5.00E-03	0.01		0.01	5.00E-03	0.01		0.01	5.00E-03	1		11	5.50E+00	1	1	1	1	
1993	aqueous bromodichloromethane	mg/L	0.01	0.01	5.00E-03	0.01		0.01	5.00E-03	0.31		0.01	5.00E-03	12		12	6.00E+00	1	1	1	1	
1993	aqueous 1,2-dichloropropane	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	18		18	9.00E+00	1	1	1	1	
1993	aqueous cis-1,3-dichloropropylene	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.31		0.01	5.00E-03	14		14	7.00E+00	1	1	1	1	
1993	aqueous dibromochloromethane	mg/L	0.01	0.01	5.00E-03	0.01		0.01	5.00E-03	0.31		0.01	5.00E-03	15		15	7.50E+00	1	1	1	1	
1993	aqueous 1,1,2-trichloroethane	mg/L	0.01	0.01	5.00E-03	0.11		0.01	5.00E-03	0.01		0.01	5.00E-03	10		10	5.00E+00	1	1	1	1	
1993	aqueous benzene	mg/L	0.1	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	17		17	8.50E+00	1	1	1	1	
1993	aqueous trans-1,3-dichloropropylene	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	7.5		7.5	3.75E+00	1	1	1	1	
1993	aqueous bromoform	mg/L	0.01	0.01	5.00E-03	0.01		0.01	5.00E-03	0.01		0.01	5.00E-03	43		43	2.15E+01	1	1	1	1	
1993	aqueous 4-methyl-2-pentanone	mg/L	0.01	0.01	5.00E-03	0.01		0.01	5.00E-03	0.01		0.01	5.00E-03	14		14	7.00E+00	1	1	1	1	
1993	aqueous 2-hexanone	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	38		38	1.90E+01	1	1	1	1	
1993	aqueous 1,1,2,2-tetrachloroethane	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	11		11	5.50E+00	1	1	1	1	
1993	aqueous toluene	mg/L	0.11	0.01	5.00E-03	0.01		0.01	5.00E-03	3.31		0.01	5.00E-03	15		15	7.50E+00	1	1	1	1	
1993	aqueous chlorobenzene	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.31		0.01	5.00E-03	10		10	5.00E+00	1	1	1	1	
1993	aqueous ethylbenzene	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	1'		1'	5.50E+00	1	1	1	1	
1993	aqueous styrene	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.01		0.01	5.00E-03	17		17	8.50E+00	1	1	1	1	
1993	aqueous cis1,2-dichloroethylene	mg/L	0.21	0.01	5.00E-03	0.31		0.01	5.00E-03	0.21		0.01	5.00E-03	17		17	8.50E+00	1	1	1	1	
1993	aqueous xylenes	mg/L	0.01	0.01	5.00E-03	0.31		0.01	5.00E-03	0.31		0.01	5.00E-03	14		14	7.00E+00	1	1	1	1	
1996	aqueous 2-methylnaphthalene	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.014	0.014	7.00E-03	1	1	1	1
1996	aqueous 1,2-dichlorobenzene	mg/L	1	1	1	5.00E-01		1	0.057	5.29E-01	4.72E-01		1	1	5.00E-01	0.21	0.21	0.063	1	1	1	100
1996	aqueous naphthalene	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.008	0.008	4.00E-03	1	1	1	1
1996	aqueous bis(2-ethylhexyl)phthalate	mg/L	0.083	0.073	7.80E-02	5.00E-03	0.086	0.02	1.43E-01	5.70E-02	0.1	0.01	0.003	0.038	0.038	0.0114	1	1	100	100	100	
19%	aqueous 1,2,4-trichlorobenzene	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous 1,3-dichlorobenzene	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.006	0.006	3.00E-03	1	1	1	1
1996	aqueous 1,4-dichlorobenzene	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.049	0.049	0.0147	1	1	1	100
1996	aqueous 2,4-dimethylphenol	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.079	0.079	0.0237	1	1	1	100
1996	aqueous 2-methylphenol	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.083	0.083	0.0249	1	1	1	100
1996	aqueous 4-methylphenol	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.083	0.083	0.0249	1	1	1	100
1996	aqueous di-n-butylphthalate	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.003	0.003	1.50E-03	1	1	1	1
1996	aqueous phenanthrene	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.006	0.006	3.00E-03	1	1	1	1
1996	aqueous phenol	mg/L	1	1	1.00E+00	5.00E-01		1	1	1.00E+00	5.00E-01		1	1	5.00E-01	0.1	0.1	0.03	1	1	1	100
1996	aqueous total organic carbon	mg/L	66	55	6.05E+01	5.50E+00		105	105	1.05E+02	3.15		35	35	105	3.1	3.1	1.55E+00	1	100	100	1
1996	aqueous 2,4,5-trichlorophenol	mg/L	5	5	5.00E+00	2.50E+00	5	5	5.00E+00	2.50E+00	1	1	5.00E-01	0.017	0.017	8.50E-03	1	1	1	1		
1996	aqueous 2,4,6-trichlorophenol	mg/L	1	1	1.00E+00	5.00E-01	1	1	1.00E+00	5.00E-01	1	1	5.00E-01	0.01	0.01	5.00E-03	1	1	1	1		
1996	aqueous 2,4-dichlorophenol	mg/L	1	1	1.00E+00	5.00E-01	1	1	1.00E+00	5.00E-01	1	1	5.00E-01	0.008	0.008	4.00E-03	1	1	1	1		
1996	aqueous 2,4-dinitrophenol	mg/L			5.00E+00	2.50E+00		5	5.00E+00	2.50E+00	1	1	5.00E-01	0.027	0.027	1.35E-02	1	1	1	1		
1996	aqueous 2,4-dinitrotoluene	mg/L	1	1	1.00E+00	5.00E-01	1	1	1.00E+00	5.00E-01	1	1	5.00E-01	0.01	0.01	5.00E-03	1	1	1	1		

Tabled C-3. (continued)

LiquidPhase-All tanks

Data Set	Matrix	Constituent	UNIT	Tank V-1			Tank V-2			Tank V-3			Tank V-9			Degree of Freedom					
				Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard Error	Data pt #1	Avg	Standard Error	Tank V-1	Tank V-2	Tank V-3
1996	aqueous	2,6-dinitrotoluene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.008	0.008	4.00E-03	1	1	1	1
1996	aqueous	2-chloronaphthalene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.01	0.01	5.00E-03	1	1	1	1
1996	aqueous	2-chlorophenol	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.006	0.006	3.00E-03	1	1	1	1
1996	aqueous	2-nitroaniline	mg/L			500E+00	250E+00			5.500E+00	2.50E+00	1	1	5.00E-01	0.006	0.006	3.0E-03	1	1	1	1
1996	aqueous	2-nitrophenol	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	3,3'-dichlorobenzidine	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.036	0.066	3.30E-02	1	1	1	1
1996	aqueous	3-nitroaniline	mg/L			500E+00	250E+00	5	5.500E+00	2.50E+00	1	1	5.00E-01	0.017	0.017	8.50E-03	1	1	1	1	
1996	aqueous	4,6-dinitro-2-methyphenol	mg/L			500E+00	250E+00	5	5.500E+00	2.50E+00	1	1	5.00E-01	0.019	0.019	0.057	1	1	1	100	
1996	aqueous	4-bromophenyl-phenyl ether	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	4-chloro-3-methylphenol	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.038	0.008	4.00E-03	1	1	1	1
1996	aqueous	4-chloroaniline	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.027	0.027	1.35E-02	1	1	1	1
1996	aqueous	4-chlorophenyl-phenyl ether	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	4-nitroaniline	mg/L	5	5	500E+00	250E+00	5	5.500E+00	2.50E+00	1	1	5.00E-01	0.004	0.004	2.00E-03	1	1	1	1	
1996	aqueous	4-nitrophenol	mg/L			500E+00	250E+00	5	5.500E+00	2.50E+00	1	1	5.00E-01	0.037	0.037	0.0111	1	1	1	103	
1996	aqueous	acenaphthene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.308	0.006	3.00E-03	1	1	1	1
1996	aqueous	acenaphthylene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	anthracene	mg/L	!	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.035	0.005	2.50E-03	1	1	1	1
1996	aqueous	benzo(a)anthracene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.003	0.008	4.00E-03	1	1	1	1
1996	aqueous	benzo(a)pyrene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.001	0.001	5.00E-01	1	1	1	1
1996	aqueous	benzol(bifluoranthene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	benzo(g,h)perylene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.303	0.003	1.50E-03	1	1	1	1
1996	aqueous	benzo(k)fluoranthene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.006	0.006	3.00E-03	1	1	1	1
1996	aqueous	benzok acid	mg/L	5	5	500E+00	250E+00	5	5.500E+00	2.50E+00	1	1	5.00E-01	5	5.00E+00	2.50E+00	1	1	1	1	
1996	aqueous	benzyl alcohol	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	1	5.00E-01	1	1	1	1	
1996	aqueous	butylbenzylphthalate	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.003	0.003	0.008	1	1	1	1
1996	aqueous	carbozole	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.0	0.0	5.00E-03	1	1	1	1
1996	aqueous	chrysene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.008	0.008	4.00E-03	1	1	1	1
1996	aqueous	d-n-octylphthalate	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.006	0.006	0.0018	1	1	1	103
1996	aqueous	dibenzo(a,h)anthracene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.005	0.005	2.50E-03	1	1	1	1
1996	aqueous	dibenzofuran	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.004	0.004	2.00E-03	1	1	1	1
1996	aqueous	diethylphthalate	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.008	0.008	4.00E-03	1	1	1	1
1996	aqueous	dimethylphthalate	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	fluoranthene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.008	0.008	4.00E-03	1	1	1	1
1996	aqueous	fluorene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.035	0.005	2.50E-03	1	1	1	1
1996	aqueous	hexachlorobenzene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0.007	3.50E-03	1	1	1	1
1996	aqueous	hexachlorobutadiene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.01	0.01	5.00E-03	1	1	1	1
1996	aqueous	hexachlorocyclopentadiene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.313	0.013	6.5E-03	1	1	1	1
1996	aqueous	hexachloroethane	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.08	0.08	4.00E-02	1	1	1	1
1996	aqueous	indeno(1,2,3-cd)pyrene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.036	0.036	1.80E-02	1	1	1	1
1996	aqueous	isophorone	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.037	0.037	3.50E-03	1	1	1	1
1996	aqueous	N-nitroso-di-n-propylamine	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.013	0.013	6.50E-03	1	1	1	1
1996	aqueous	N-nitrosodiphenylamine	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.311	0.011	5.50E-03	1	1	1	1
1996	aqueous	nitrobenzene	mg/L	1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.009	0.009	4.50E-03	1	1	1	1
1996	aqueous	pentachlorophenol	mg/L			500E+00	250E+00	3	5.500E+00	2.50E+00	1	1	5.00E-01	0.313	0.013	6.50E-03	1	1	1	1	
1996	aqueous	pyrene	mg/L	1	1	1	5.00E-01	1	0.052	5.26E-01	4.74E-01	0.063	0.063	0.0189	0.012	0.012	6.00E-03	1	1	1	100

Tabled C-3. (continued)

LiquidPhase-All tanks

Data Set	Matrix	Constituent	UNIT	Tank V-1			Tank V-2			Tank V-3			Tank V-0			Degree of Freedom					
				Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard Error	Data pt #1	Avg	Standard Error	Tank V-1	Tank V-2	Tank V-3
1996	aqueous pyridine	mg/L		1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.01	001	5.00E-03	1	1	1	1
1996	aqueous bis(2-chloroethoxy)methane	mg/L		1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0308	0008	4.00E-03	1	1	1	1
1996	aqueous bis(2-chloroethyl)ether	mg/L		1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.007	0007	3.50E-03	1	1	1	1
1996	aqueous bis(2-chloroisopropyl)ether	mg/L		1	1	100E+00	5.00E-01	1	1	100E+00	5.00E-01	1	1	5.00E-01	0.006	0W6	3.00E-03	1	1	1	1
1996	aqueous tributyl Phosphate	mg/L													019	019	0057	1	1	1	1

Table C-4. Sludge Phase – Radionuclides in Tanks V-1 and V-2

Sludge Phase — Radionuclides

Data Set	Matrix	Constituent	Reporting Basis	UNIT	Tank V-1					Tank V-2							
					Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard error	Data pt #1	Data pt #2	Data pt #3			
1996	Sludge	Pu-238	Slurry	nCi/g	26.1	26.2	23.7	8.59	107	19.0%	3.88E+00	56.9	44.4	13.9	7.54	788	2.10E+00
	Sludge	Pu-239/1240	Slurry	nCi/g	10.8	11.2	11.4	4.6	5.45	8.69	1.51E+00	8.26	7.5	6.15	4.73	666	7.77E-01
	Sludge	Am-241	Slurry	nCi/g	28.1	32.8	25.2	9.24	117	21.41	4.64E+00	3.52	2.68	2.5	1.23	248	4.73E-01
	Sludge	Cm-242	Slurry	nCi/g	0.11	0.112	0.098	1.52E-02	0.039	0.07	2.00E-02	0.003	0.002	0.0095	0.003	0.00	1.72E-03
	Sludge	Cm-243/244	slurry	nCi/g	8.4	9.63	7.26	2.79	3.47	6.31	1.35E+00	0.16	0.126	0.117	0.244	0.16	2.89E-02
	Sludge	Np-237	Slurry	nCi/g	0.0299	0.0279	cu2.3	0.0394	0.0147	0.03	1.02E-02	0.0335	0.0092	0.038	0.724	0.03	7.91E-03
	Sludge	U-233/234	Slurry	nCi/g	2.51	1.76	10.4	7.27	4.33	5.25	1.60E+00	3.79	2.66	3.15	3.35	3.24	2.0E-01
	Sludge	U-235	Slurry	nCi/g	0.078	0.058	0.316	0.214	0.13	0.16	4.76E-02	0.113	0.081	0.1	0.102	0.10	6.65E-03
	Sludge	U-238	slurry	nCi/g	0.114	0.065	0.106	0.081	0.067	0.09	1.00E-02	0.131	0.051	0.097	0.075	0.08	1.70E-02
	Sludge	Sr-90	slurry	nCi/g	4890	4040	14300	6750	8560	7708 m	1.82E+03	16500	11500	10700	16100	1370000	1.51E+03
	Sludge	Ag-108	Slurry	nCi/g	188	0.831	132	101	0.691	111	4.76E-01	2.08	0.753	0.43	0.10	101	3.0E-01
	Sludge	Ag-110	slurry	nCi/g	3.47	1.05	1.95	1.92	1.34	1.95	8.42E-01	3.91	0.794	0.76	1.38	171	9.22E-01
	Sludge	Ce-144	Slurry	nCi/g	18.4	8.82	21.8	103	119	12.90	5.84E+00	20.7	4.98	4.89	7.47	9.51	4.88E+00
	Sludge	Co-58	slurry	nCi/g	3.7	12.2	4.37	1.2	0.825	2.26	1.17E+00	3.73	0.9	0.69	0.597	1.55	8.0E-01
	Sludge	Co-60	Slurry	nCi/g	446	151	368	184	67	243.20	7.08E+01	705	156	138	75.8	268.70	1.46E+02
	Sludge	Cs-134	Slurry	nCi/g	2.9	2.16	149	0.5	0.726	1.56	4.48E-01	4.27	0.316	0.317	0.29	0.55	2.41E-01
	Sludge	Cs-137	Slurry	nCi/g	7260	5910	15800	9980	5100	8806.00	1.93E+03	14100	6330	5680	4870	7740 m	2.14E+03
	Sludge	Eu-152	Slurry	nCi/g	45.4	52.9	37.3	15.2	25.6	35.28	6.78E+00	48.6	2.95	3.03	9.93	1.963	1.09E+01
	Sludge	Eu-154	Slurry	nCi/g	64.3	71.2	53.4	20.3	28.2	47.48	9.98E+00	33.4	24.4	20.2	14.6	23.15	3.96E+00
	Sludge	Eu-155	Slurry	nCi/g	6.78	27	6.11	3.77	2.63	4.40	8.66E-01	7.61	2.58	2.87	2.93	4.00	1.21E+00
	Sludge	Mn-54	Slurry	nCi/g	1.38	0.437	151	0.441	0.282	0.81	4.18E-01	1.38	0.335	0.332	0.299	0.58	3.22E-01
	Sludge	Nb-95	Slurry	nCi/g	3.35	1.3	17.5	12.8	0.885	4.99	4.15E+00	3.89	0.972	0.654	0.728	1.64	9.20E-01
	Sludge	Re-226	Slurry	nCi/g	0.849	0.332	1.12	0.381	0.336	0.60	2.90E-01	8.93	0.24	0.257	0.373	2.45	2.21E+00
	Sludge	Ru-103	Slurry	nCi/g	24.7	10.2	34	13.8	10.6	18.66	8.68E+00	27.4	6.96	6.76	6.98	12.03	6.48E+00
	Sludge	Ru-106	Slurry	nCi/g	22.9	7.47	24.2	12.4	8.58	15.11	6.80E+00	26.4	5.44	5.36	8.66	11.27	5.99E+00
	Sludge	Sb-125	slurry	nCi/g	3.29	3.43	10.9	4.88	3.21	6.10	2.82E+00	9.36	2.45	2.42	3.44	4.42	2.21E+00
	Sludge	Zn-65	Slurry	nCi/g	3.64	1.13	3.52	1.16	0.73	2.04	1.03E+00	3.63	0.775	0.778	0.15	1.48	8.82E-01
	Sludge	Zr-95	Slurry	nCi/g	7.01	2.33	8.74	2.31	1.59	4.40	2.30E+00	8.92	1.77	.72	1.28	2.92	1.64E+00
	Sludge	I-129	Slurry	nCi/g	0.142	0.042	0.065	0.048	0.041	0.07	3.38E-02	0.0684	0.115	0.035	0.058	0.07	2.81E-02
	Sludge	Ni-63	Slurry	nCi/g	1980	670	3310	1720	725	1881.00	4.84E-02	1750	557	804	589	920 m	2.82E+02

Table G5. Sludge Phase – Radionuclides in Tanks V-3 and v-9, and Degree of Freedom.

Data Set	Matrix	Constituent	Reporting Basis	Unit	Tank V-3						Tank V-9						Degree of Freedom					
					Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard error	Data pt #1	Data pt #2	Data pt #3	Data pt #4	Data pt #5	Avg	Standard error	Tank V-1	Tank V-2	Tank V-3	Tank V-9
1996	Sludge	Pu-238	Slurry	nCJg	15.3	14.6	11.8	14.2	10.8	1334	8.66E-01	115	28.6	—	—	—	2005	8.55E+00	400E+00	300E+00	4	1
	Sludge	Pu-239/240	Slurry	nCVg	10	744	5.37	684	4.81	689	9.11E-01	7.38	7.18	—	—	—	728	1.0m+01	400E+00	300E+00	4	1
	Sludge	Am241	Slurry	nCVg	11.5	7.66	4.84	6.18	5.62	716	1.18E+00	4.3	57	—	—	—	500	7.00E-01	400E+00	300E+00	4	1
	Sludge	Cm-242	slurry	nCJg	0.0836	0.0199	0.0132	0.0754	0.0478	005	1.42E-02	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Cm-243/244	Slurry	nCVg	3.69	2.07	1.14	1.59	1.57	201	4.45E-01	0453	0.704	—	—	—	0.58	1.26E-01	400E+00	300E+00	4	1
	Sludge	Np-237	Slurry	nCJg	0.0238	0.0259	0.02	0.021	0.0575	003	1.37E-02	0027	0.033	—	—	—	003	3.00E-03	400E+00	300E+00	4	1
	Sludge	U-233/234	Slurry	nCVg	1.38	111	243	2.18	4.06	223	5.18E-01	8.02	134	—	—	—	1071	2.69E+00	400E+00	300E+00	4	1
	Sludge	U-235	Slurry	nCdg	0.05	0.038	0.079	0.069	0.128	007	1.55E-02	0.255	0.45	—	—	—	035	9.75E-02	400E+00	300E+00	4	1
	Sludge	U-238	Slurry	nCdg	0.065	0.051	0.079	0.061	0.085	007	6.15E-03	0078	0.0825	—	—	—	008	2.25E-03	400E+00	300E+00	4	1
	Sludge	Sr-90	Slurry	nCVg	6210	10200	23200	44500	24000	2162200	6.71E-03	5740	7070	—	—	—	6405.00	6.65E+02	400E+00	300E+00	4	1
	Sludge	Ag-108	Slurry	nCVg	0413	1.01	1.36	1.19	0.777	095	3.70E-01	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Ag-110	Slurry	nCVg	0.711	1.91	2.61	2.24	1.03	170	7.04E-01	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Ce-144	Slurry	nCVg	4.55	10.3	14.5	12.5	25.6	1349	6.22E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Cs-58	Slurry	nCVg	0.824	1.16	1.12	1.86	2.35	168	6.16E-01	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Cs-60	Slurry	nCVg	184	321	128	223	80.5	18730	4.13E+01	1160	726	—	—	—	94300	2.17E+02	400E+00	300E+00	4	1
	Sludge	Cs-134	Slurry	nCJg	264	2.37	0.581	0.897	109	152	4.14E-01	—	—	—	—	—	000	0.00E+00	400E+00	300E+00	4	1
	Sludge	Cs-137	Slurry	nCVg	6810	7450	8050	6630	9050	7598.00	4.41E+02	4810	6370	—	—	—	5590.00	7.80E+02	400E+00	300E+00	4	1
	Sludge	Eu-152	Slurry	nCJg	28.4	29.3	8.47	12.8	12.5	1829	4.38E+00	—	0	0	—	—	0M	0.00E+00	400E+00	300E+00	4	1
	Sludge	Eu-154	Slurry	nCJg	37.9	33.8	26.3	30.6	28.5	3142	2.04E+00	—	—	—	—	—	2220	1.11E+01	400E+00	300E+00	4	1
	Sludge	Eu-155	slurry	nCVg	2.32	3.86	5.42	4.72	5.19	430	5.63E-01	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Mn-54	Slurry	nCVg	0294	0.635	0.572	0.678	0.815	060	2.17E-01	—	—	—	—	—	0.00	0.0M	400E+00	300E+00	4	1
	Sludge	Nb-95	Slurry	nCVg	0.883	1.37	1.77	1.96	9.48	319	2.25E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Ra-226	slurry	nCJg	022	0.45	0.523	5.12	E28	291	2.03E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Ru-103	slurry	nCVg	69	13.7	153	16.3	25.3	1630	6.55E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Ru-106	Slurry	nCJg	4.94	2.4	15.8	14.5	17.9	1331	5.01E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Sb-125	slurry	nCVg	2.25	3.56	c.3	5.39	8.3	536	2.15E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Zn-65	Slurry	nCVg	0731	1.09	146	1.76	1.79	149	5.12E-01	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Zr-95	Slurry	nCVg	1.57	3.29	3.14	3.58	6.85	3.68	1.85E+00	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	I-129	Slurry	nCVg	0078	0.048	0.069	0.108	0.048	007	2.75E-02	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1
	Sludge	Ni-63	Slurry	nCJg	1770	1480	969	111	441	95420	3.10E+0	—	—	—	—	—	000	0.00	400E+00	300E+00	4	1

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Data Set	Matrix	Constituent	Unit	Tank V-1			Tank V-2			Tank V-3			Tank V-9			Degree of Freedom				
				Data pt #1	Avg	Standard error	Data pt #1	Avg	Standard error	Data pt #1	Data pt #2	Avg	Standard error	Data pt #1	Avg	Standard error	Tank V-1	Tank V-2	Tank V-3	Tank V-9
1996	Aqueous	Pt-238	nCi/L	0.224	0.224	0.0105	0.475	0.475	0.0173	0.038		0.038	0.00335	170	170	12.9	100.00	100.00	100	100
	Aqueous	Pt-239/240	nCi/L	0.105	0.105	0.00664	0.283	0.283	0.012	0.0197		0.0197	0.00236	45.3	45.3	3.69	100.00	100.00	100	100
	Aqueous	Am-241	nCi/L	0.197	0.197	0.00921	0.059	0.059	0.00488	0.0318		0.0318	0.00316	40.2	40.2	2.5	100.00	100.00	100	100
	Aqueous	Cm-242	nCi/L	0.0086	0.0086	4.30E-03	0.005	0.005	2.50E-03	0.0062		0.0062	3.10E-03	0	0	0	1.00	1.00	1	100
	Aqueous	Cm-243/244	nCi/L	0.002	0.0642	0.00472	0.0162	0.0162	0.00248	0.0063		0.0063	3.15E-03	5.2	5.2	0.39	100.00	100.00	1	100
	Aqueous	Np-237	nCi/L	0.027	0.027	1.35E-02	0.0276	0.0276	1.38E-02	0.0364		0.0364	1.82E-02	0.2	0.2	0.036	1.00	1.00	1	100
	Aqueous	U-233/234	nCi/L	18.9	18.9	0.643	38.6	38.6	1.3	13.3		13.3	0.443	223	223	66.9	100.00	100.00	100	100
	Aqueous	U-235	nCi/L	0.566	0.566	0.0218	1.6	1.6	0.0562	0.4		0.4	0.0152	6.9	6.9	2.07	100.00	100.00	100	100
	Aqueous	U-238	nCi/L	0.21	0.21	0.00891	0.499	0.499	0.0176	0.135		0.135	0.00597	0.97	0.97	0.291	100.00	100.00	100	100
	Aqueous	Sr-90	nCi/L	2030	2030	9.01	4900	4900	17.4	12300		12300	21.9	250000	250000	25000	100.00	100.00	100	100
	Aqueous	Ag-108	nCi/L	0.776	0.776	3.88E-01	3.96	3.96	1.98E+00	0.89	0.343	6.17E-01	4.45E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Ag-110	nCi/L	127	127	6.35E-01	7.12	7.12	3.56E+00	1.45	0.906	1.18E+00	7.25E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Ce-144	nCi/L	7.53	7.53	3.77E+00	37.8	37.8	1.89E+01	9.1	3	6.05E+00	4.55E+00	0	0	0	1.00	1.00	1	100
	Aqueous	Co-58	nCi/L	2.16	2.16	1.08E+00	1.6	1.6	8.00E-01	2.06	0.284	1.17E+00	1.03E+00	0	0	0	1.00	1.00	1	100
	Aqueous	Cr-60	nCi/L	15.5	15.5	4.65	13	13	3.9	14.8	4.48	9.64E+00	5.16E+00	1.18	1.18	0.0594	100.00	100.00	1	100
	Aqueous	Cs-134	nCi/L	0.734	0.734	3.67E-01	0.764	0.764	3.82E-01	0.726	0.449	5.88E-01	1.39E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Cs-137	nCi/L	2900	2900	134	13500	13500	617	4230	1560	2.90E+03	1.34E+03	420	420	16.2	100.00	100.00	1	100
	Aqueous	Eu-152	nCi/L	4.86	4.86	2.43E+00	4.76	4.76	2.38E+00	4.63	0.693	2.66E+00	2.32E+00	0.57	0.57	0.037	1.00	1.00	1	100
	Aqueous	Eu-154	nCi/L	166	166	8.30E-01	1.82	1.82	9.10E-01	1.53	0.213	8.72E-01	7.65E-01	0.27	0.27	0.0228	1.00	1.00	1	100
	Aqueous	Eu-155	nCi/L	2.42	2.42	1.21E+00	14.4	14.4	7.20E+00	3.02	1.17	2.10E+00	1.51E+00	0	0	0	1.00	1.00	1	100
	Aqueous	Mn-54	nCi/L	0.755	0.755	3.78E-01	0.716	0.716	3.58E-01	0.748	0.106	4.27E-01	3.74E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Nb-95	nCi/L	24	24	1.20E+00	1.96	1.96	9.80E-01	2.22	0.319	1.27E+00	1.11E+00	0	0	0	1.00	1.00	1	100
	Aqueous	Ra-226	nCi/L	126	126	1.26E-01	4.1	4.1	2.05E+00	1.22	0.332	7.76E-01	6.10E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Ra-103	nCi/L	12.9	12.9	6.45E-00	36	36	1.80E+01	13.6	5.64	9.62E+00	6.80E+00	0	0	0	1.00	1.00	1	100
	Aqueous	Ra-106	nCi/L	9.43	9.43	4.72E+00	46.2	46.2	2.31E+01	10.5	4.08	7.29E+00	5.25E+00	0	0	0	1.00	1.00	1	100
	Aqueous	St-125	nCi/L	3.87	3.87	1.94E+00	18.4	18.4	9.20E+00	4.6	1.9	3.25E+00	2.30E+00	0	0	0	1.00	1.00	1	100
	Aqueous	Zr-65	nCi/L	173	173	8.65E-01	1.7	1.7	8.50E-01	1.64	0.237	9.39E-01	8.20E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Zr-95	nCi/L	4.3	4.3	2.15E+00	3.2	3.2	1.60E+00	4	0.549	2.27E+00	2.00E+00	0	0	0	1.00	1.00	1	100
	Aqueous	I-129	nCi/L	0.252	0.252	1.26E-01	0.169	0.169	8.45E-02	0.218	0.108	1.63E-01	1.09E-01	0	0	0	1.00	1.00	1	100
	Aqueous	Ni-63	nCi/L	288	288	20.7	448	448	32.3	205		205	14.8	0	0	0	100.00	100.00	100	100
	Aqueous	K-3	nCi/L	30400	30400	3160	102000	102000	10700	6090		6090	633	353000	353000	160	100.00	100.00	100	100

Table C-7. Tank Properties

	DF	mean	s.e.		mean	s.e.	DF	TANK V1		
V-1	4	Kgds/Kggs	0.4434	0.080007 g	Mliquid	4406	172	100	Weight S.E. D.F	
	1	Kgds/Ksludge	0.28	0.005		rho liquid	172	100		
	2	rho sludge	1.017	0.003						
	100	vol sludge	1968	125						
		mean	s.e.		mean	s.e.		TANK V2		
v-2	3	Kgds/Kggs	0.48	0.031 g	Mliquid	4307	170	100	Weight S.E. D.F	
	1	Kgds/Ksludge	0.385	0.027		rho liquid	170	100		
	2	rho sludge	1.02	0.006						
	100	vd sludge	1734	120						
		mean	s.e.		mean	s.e.		TANK V3		
v-3	3	Kgds/Kggs	0.466	0.049 g	vol liquid	28997	172	100	Weight S.E. D.F	
	1	Kgds/Ksludge	0.404	0		rho liquid	172	100		
	3	rho sludge	1.018	0.002						
	100	vd sludge	2468	133						
		mean	s.e.		mean	s.e.		TANK V9		
v-9	1	Kgds/Kggs	1	0 g	Mliquid	265	27	100	Weight S.E. D.F	
	1	Kgds/Ksludge	1	0		rho liquid	27	100		
	2.4743	rho sludge	1.126	0.04452						
	100	vd sludge	946	97						
	3	Kgds/Ksludge	0.42	0.105					A1	
									TANK	
									Weight S.E. D.F	
									45322.76 390.0535 629.3447	

Kgds/Kggs is the mass fraction of dry solids in the filtered solids
 Kgds/Ksludge is the mass fraction of dry solids in the tank sludge
 rho sludge is the density of the sludge in kg/L
 vol sludge is the volume of the tank sludge in liters
 vol liquid is the volume of the supernatant liquid in a tank, in liters

File Name: V-Tank M a Summary/Tank properties

Table C-8. V-1 Tank Properties

Tank V-1

Matrix	Constituent	Reporting Basis	Unit	A	E	C	D	Total Kg	Total mg/Kg	90% UCL	A	E	C	D	A	E	C	D
				Kg In Sludge	Kg In Liquid			Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom			
sludge	Al	Dry weight	wt fraction	3.36E+00	1.30E-02	3.38E+00	5.27E+02	7.36E+02	1.032889005	0.000816384	1.0328893	162.1581577	1.10E+02	2.66E+00	1.10E+02	112.19		
sludge	Ca	Dry weight	wt fraction	1.12E+01	2.09E-01	1.14E+01	1.78E+03	2.48E+03	3.442963351	0.008181872	3.4429731	540.6230017	1.10E+02	1.00E+02	1.10E+02	112.27		
sludge	Cr	Dry weight	wt fraction	3.36E+00	1.59E-03	3.36E+00	5.25E+02	7.34E+02	1.032889005	0.000176477	1.032889	162.1516579	1.10E+02	1.30E+00	1.10E+02	112.17		
sludge	Fe	Dry weight	wt fraction	1.68E+01	5.07E-02	1.69E+01	2.63E+03	3.68E+03	5.164445026	0.002960691	5.1644455	810.7825152	1.10E+02	3.24E+00	1.10E+02	112.18		
sludge	Mg	Dry weight	wt fraction	1.68E+01	9.43E-02	1.69E+01	2.64E+03	3.68E+03	5.164445026	0.008345741	5.1644518	810.8081011	1.10E+02	1.54E+00	1.10E+02	112.20		
sludge	Mn	Dry weight	wt fraction	4.48E+00	1.17E-02	4.49E+00	7.02E+02	9.80E+02	1.37718534	0.000732004	1.3771855	216.207629	1.10E+02	2.66E+00	1.10E+02	112.18		
sludge	Si	Dry weight	wt fraction	1.34E+02	6.94E-02	1.35E+02	2.10E+04	2.94E+04	41.3156021	0.00462217	41.31556	6486.069566	1.10E+02	2.31E+00	1.10E+02	112.17		
sludge	P	Dry weight	wt fraction	6.16E+01	1.64E-03	6.16E+01	9.62E+03	1.36E+04	18.93629843	0.000325797	18.936298	2972.764873	1.10E+02	1.08E+00	1.10E+02	112.17		
sludge	Sb	Slurry	wt fraction	6.33E-03	9.94E-04	7.33E-03	1.14E+00	1.58E+00	0.001862179	6.03707E-05	0.0018632	0.293275148	5.01E+00	2.89E+00	5.02E+00	5.19		
sludge	As	slurry	wt fraction	3.68E-03	5.51E-05	3.73E-03	5.83E-01	8.15E-01	0.001000929	3.07826E-06	0.0010009	0.157420659	5.74E+00	3.78E+00	5.74E+00	5.92		
sludge	Ba	Slurry	wt fraction	5.27E-02	1.11E-03	5.38E-02	8.39E+00	1.44E+01	0.023318783	0.000552446	0.0233253	3.651114134	2.97E+00	1.01E+00	2.98E+00	3.01		
sludge	Be	slurry	wt fraction	1.02E-02	5.27E-05	1.03E-02	1.60E+00	3.48E+00	0.006388549	2.41005E-05	0.0063886	0.998490467	2.43E+00	1.01E+00	2.43E+00	2.44		
sludge	Cd	slurry	wt fraction	2.47E-02	2.00E-04	2.49E-02	3.89E+00	6.41E+00	0.009845343	1.72932E-05	0.0098454	1.5420231	3.29E+00	1.58E+00	3.28E+00	3.33		
sludge	Fluoride	slurry	wt fraction	6.32E-03	2.20E-02	2.83E-02	4.42E+00	9.85E+00	0.002191428	0.011048521	0.0112638	1.764111411	7.23E+00	1.01E+00	1.09E+00	1.11		
sludge	Pb	slurry	wt fraction	3.09E-01	3.43E-03	3.13E-01	4.88E+01	6.67E+01	0.078881552	0.000308224	0.0788822	124.1846507	6.41E+00	1.52E+00	6.41E+00	6.63		
sludge	Hg	slurry	wt fraction	3.84E-01	1.62E-03	3.86E-01	6.02E+01	7.84E+01	0.079725237	6.34492E-05	0.0797253	12.60401343	6.53E+00	1.01E+02	6.53E+00	6.87		
sludge	Ni	Slurry	wt fraction	9.87E-02	2.23E-03	1.01E-01	1.57E+01	2.16E+01	0.025790423	0.000135205	0.0257908	4.059318928	6.16E+00	2.89E+00	6.16E+00	6.37		
sludge	Se	slurry	wt fraction	3.35E-03	2.20E-05	3.37E-03	5.26E-01	1.11E+00	0.00199012	1.10485E-05	0.0019902	0.311095679	2.48E+00	1.01E+00	2.48E+00	2.50		
sludge	Ag	slurry	wt fraction	4.91E-02	2.25E-04	4.93E-02	7.70E+00	1.70E+01	0.031514577	3.63231E-05	0.0315146	4.925143939	2.40E+00	1.13E+00	2.40E+00	2.42		
sludge	Sulfate	slurry	wt fraction	1.03E+00	1.35E-01	1.16E+00	1.82E+02	3.26E+02	0.620798207	0.078603208	0.6257546	97.84876803	4.91E+00	1.01E+00	5.06E+00	5.10		
sludge	Tl	slurry	wt fraction	2.92E-02	2.00E-05	2.82E-02	4.41E+00	9.35E+00	0.016763428	2.54654E-06	0.0167634	2.620375951	2.48E+00	1.22E+00	2.48E+00	2.50		
sludge	V	slurry	wt fraction	1.95E-03	2.64E-04	2.22E-03	3.46E-01	4.62E-01	0.000502699	0.000132581	0.0005199	0.081957787	6.32E+00	1.01E+00	7.02E+00	7.31		
sludge	Zn	slurry	wt fraction	5.36E+00	2.56E-01	5.62E+00	8.77E+02	1.21E+03	1.448947894	0.013631534	1.449012	228.0335337	5.82E+00	4.65E+00	5.82E+00	6.02		
sludge	Chloride	Slurry	wt fraction	2.90E-01	1.04E+00	1.33E+00	2.07E+02	2.50E+02	0.179301357	0.044252863	0.1846816	29.64369643	4.86E+00	3.10E+01	5.46E+00	6.11		
sludge	Na	slurry	wt fraction	6.41E-01	2.56E+00	3.20E+00	4.99E-02	6.05E+02	0.388395917	1.05903965	0.4025527	64.99690472	2.46E+00	4.95E+01	2.84E+00	3.25		
sludge	K	slurry	wt fraction	7.45E-01	4.54E-01	1.20E+00	1.87E+02	3.37E+02	0.505846225	0.01925567	0.5061755	79.24456076	2.36E+00	8.16E+01	2.36E+00	2.39		
sludge	E	slurry	wt fraction	4.56E-02	2.32E-01	2.78E-01	4.34E+01	4.92E+01	0.021355803	0.009391044	0.0233111	3.91609684	2.85E+00	7.61E+01	4.06E+00	5.44		
sludge	co	Slurry	wt fraction	2.41E-03	1.94E-04	2.60E-03	4.06E-01	5.31E-01	0.000551776	9.50308E-05	0.0005599	0.088426469	7.13E+00	1.01E+00	7.51E+00	7.87		
sludge	c u	slurry	wt fraction	1.55E-01	9.69E-04	1.56E-01	2.44E+01	4.70E+01	0.076644289	0.00013749	0.0766444	11.98941815	2.74E+00	1.17E+00	2.74E+00	2.77		
sludge	Sn	Slurry	wt fraction	2.25E-02	0.00E+00	2.25E-02	3.51E+00	4.86E+00	0.005980962	0	0.005981	0.940747645	5.96E+00	1.00E+02	5.96E+00	6.15		
sludge	Bromide	Slurry	wt fraction	6.77E-03	2.37E-02	3.05E-02	4.76E+00	5.37E+00	0.002217063	0.001543193	0.0027013	4.5050583415	7.66E+00	2.44E+00	9.72E+00	12.67		
sludge	Nitrate	slurry	wt fraction	2.63E-03	8.81E-03	1.13E-02	1.77E+00	3.94E+00	0.000876571	0.04419409	0.0045055	0.705644554	7.23E+00	1.01E+00	1.09E+00	1.11		
sludge	Nitrite	slurry	wt fraction	5.06E-03	1.76E-02	2.27E-02	3.54E+00	7.88E+00	0.001753142	0.008838817	0.009011	1.411289129	7.23E+00	1.01E+00	1.09E+00	1.11		
sludge	Phosphate	slurry	wt fraction	1.29E-02	6.56E-03	1.94E-02	3.03E+00	4.55E+00	0.006444226	0.001303188	0.0065747	1.031079863	5.37E+00	1.08E+00	5.77E+00	5.89		
sludge	Aroclor-1260	Dry weight	wt fraction	2.21E-01	4.41E-04	2.21E-01	34.53	4.69E+01	0.051249345	0.00022097	0.0512498	8.081143723	4.73E+00	1.01E+00	4.73E+00	4.93		
sludge	TCE	slurry	wt fraction	2.39E-02	7.05E-04	2.45E-02	3.84	1.45E+01	0.022158374	0.000213271	0.0221594	3.460759054	1.01E+00	1.03E+02	1.01E+00	1.01		
sludge	PCE	slurry	wt fraction	2.90E+00	6.17E-04	2.80E+00	437.41	8.34E+02	0.820168032	0.000186612	0.8201681	128.8327798	1.10E+00	1.03E+02	1.10E+00	1.13		
sludge	chloromethane	slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	1.33234E-05	0.0022105	0.345394314	1.02E+00	1.03E+02	1.02E+00	1.02		
sludge	bromornethane	Slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.245394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	TCA	slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	vinyl chloride	slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	chloromethane	slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	methylene chloride	Slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	acetone	Slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	carbon disulfide	Slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		
sludge	1,1-dichloroethylene	Slurry	wt fraction	3.11E-03	4.41E-05	3.18E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02		

Table C-8. (continued).

Tank V-1				A	B	C	D	A	B	C	D	A	B	C	D	
Matrix	Constituent	Reporting Basis	Unit	Kg In Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UC	Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
sludge	1,1-dichloroethane	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	trans-1,2-dichloroethylene	slurry	wt fraction	3.11E-03	2.56E-04	3.37E-03	0.53	1.59E+00	0.002210478	7.73107E-05	0.0022118	0.345642056	1.02E+00	1.03E+02	1.02E+00	1.02
sludge	chloroform	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	1,2-dichloroethane	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	2-butanone	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	carbon tetrachloride	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	bromodichloromethane	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	1,2-dichloropropane	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	cis-1,3-dichloropropylene	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	dibromochloromethane	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	1,1,2-trichloromethane	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	benzene	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	trans-1,3-dichloropropylene	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	bromoform	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	4-methyl-2-pentanone	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	2-hexanone	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	1,1,2,2-tetrachloroethane	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	toluene	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	chlorobenzene	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	ethylbenzene	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	styrene	Slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	cis-1,2-dichloroethylene	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	xylene	slurry	wt fraction	3.11E-03	4.41E-05	3.16E-03	0.49	1.56E+00	0.002210478	2.2097E-05	0.0022106	0.345394364	1.02E+00	1.01E+00	1.02E+00	1.02
sludge	2-methylnaphthalene	Dry weight	wt fraction	6.33E-02	4.41E-03	6.77E-02	10.56	1.85E+01	0.032924247	0 002209704	0.0329983	5.162054116	4.13E+00	1.01E+00	4.17E+00	4.21
sludge	1,2-dichlorobenzene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	naphthalene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	bis(2-ethylhexyl)phthalate	Dry weight	wt fraction	5.88E+00	3.44E-04	5.88E+00	918.40	1.27E+03	1.456725718	2.57936E-05	1.4567257	229.4076575	4.63E+00	1.88E+00	4.63E+00	4.81
sludge	1,2,4-trichlorobenzene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	1,3-dichlorobenzene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	1,4-dichlorobenzene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044509702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2,4-dimethylphenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2-methylphenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	4-methylphenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	di-n-butylphthalate	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	phenanthrene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	phenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	Total Carbon	Slurry	wt fraction	1.06E+02	2.67E-01	1.07E+02	16650.27	2.46E+04	39.58512905	0 026372772	39.585138	6202.948819	1.92E+02	1.40E+00	1.92E+02	195.62
sludge	2,4,5-trichlorophenol	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01	92.65	1.48E+02	0.229610898	0 011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31
sludge	2,4,6-trichlorophenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2,4-dichlorophenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2,4-dinitrophenol	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01	92.65	1.48E+02	0.229610898	0 011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31
sludge	2,4-dinitrotoluene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2,6-dinitrotoluene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2-chloronaphthalene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2-chlorophenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	2-nitroaniline	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01	92.65	1.48E+02	0.229610898	0 011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31
sludge	2-nitrophenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32
sludge	3,3'-dichlorobenzidine	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01	18.28	2.89E+01	0.044309702	0 002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32

Table C-8. (continued).

Tank V-1										Engineering Design File									
Matrix	Constituent	Reporting Basis	unit	A	E	C	D	Total Kg	Total mg/Kg	90% UC	A	B	C	D	A	E	C	D	
				Kg In Sludge	Kg In Liquid			Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom				
sludge	3-nitroaniline	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01		92.65	1.48E+02										
sludge	4,6-dinitro-2-methylphenol	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01		92.65	1.48E+02	0.229610898	0.011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31		
sludge	4-bromophenyl-phenyl ether	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	4-chloro-3-methylphenol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	4-chloroaniline	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	4-chlorophenyl-phenyl ether	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	4-nitroaniline	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01		92.65	1.48E+02	0.229610898	0.011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31		
sludge	4-nitrophenol	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01		92.65	1.48E+02	0.229610898	0.011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31		
sludge	acenaphthene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	acenaphthylene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	anthracene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	benzo(a)anthracene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	benzo(a)pyrene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	benzo(b)fluoranthene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	benzo(g,h,i)perylene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	benzo(k)fluoranthene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	benzoic acid	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01		92.65	1.48E+02	0.229610898	0.011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31		
sludge	benzyl alcohol	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	butylbenzylphthalate	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	carbazole	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	chrysene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	di-n-octylphthalate	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	dibenz(a,h)anthracene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	dibenzofuran	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	diethylphthalate	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	dimethylphthalate	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	fluoranthene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	fluorene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	hexachlorobenzene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	hexachlorobutadiene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	hexachlorocyclopentadiene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	hexachloromethane	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	Indeno(1,2,3-cd)pyrene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	isophorone	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	N-nitroso-di-n-propylamine	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	N-nitrosodiphenylamine	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	nitrobenzene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	pentachlorophenol	Dry weight	wt fraction	5.72E-01	2.20E-02	5.94E-01		92.65	1.48E+02	0.229610898	0.011048521	0.2298766	36.00956671	4.23E+00	1.01E+00	4.24E+00	4.31		
sludge	pyrene	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	pyridine	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	bis(2-chloroethoxy)methane	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	bis(2-chloroethyl)ether	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	bis(2-chloroisopropyl)ether	Dry weight	wt fraction	1.13E-01	4.41E-03	1.17E-01		18.28	2.89E+01	0.044309702	0.002209704	0.0443648	6.950798113	4.24E+00	1.01E+00	4.26E+00	4.32		
sludge	Pu-238	slurry	nCi/g	2.41E-02	9.87E-07	2.41E-02		3.76	5.23E+00	0.006745977	6.02052E-08	0.006746	1.060290143	8.84E+00	1.94E+02	8.84E+00	9.09		
sludge	Pu-239/240	Slurry	nCi/g	1.10E-02	4.63E-07	1.10E-02		1.71	2.33E+00	0.002841404	3.43812E-08	0.0028414	0.447131896	9.13E+00	1.67E+02	9.13E+00	9.44		
sludge	Am-241	Slurry	nCi/g	2.71E-02	8.68E-07	2.71E-02		4.22	5.94E+00	0.007840467	5.28659E-08	0.0078405	1.231745962	8.61E+00	1.94E+02	8.61E+00	8.84		
sludge	Cm-242	Slurry	nCi/g	9.46E-05	3.79E-08	9.46E-05		0.01	2.17E-02	3.1127E-05	1.90035E-08	3.113E-05	0.004882896	7.62E+00	1.01E+00	7.62E+00	7.78		

Table C-8 (continued).

Tank V-1

Matrix	Constituent	Reporting Basis	Unit	A	B	C	D	A	B	C	D	A	B	C	D	
				Kg In Sludge	Kg In Liquid	Total Kg	Total mg/Kg	90% UC	Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	
sludge	Cm-243/244	Slurry	nCi/g	7.98E-03	2.83E-07	7.98E-03	1.24	1.75E+00	0.002298561	2.35462E-08	0.0022986	0.361132054	8.65E+00	1.52E+02	8.65E+00	8.88
sludge	Nd-237	Slurry	nCi/g	3.37E-05	1.19E-07	3.38E-05	0.01	8.52E-03	1.44113E-05	5.9662E-08	1.441E-05	0.00225605	5.98E+00	1.01E+00	5.98E+00	6.05
sludge	U-233/234	slurry	nCi/g	6.64E-03	8.33E-05	6.72E-03	1.05	1.58E+00	0.002390053	4.31207E-06	0.0023901	0.374654161	6.96E+00	1.96E+02	6.96E+00	7.09
sludge	U-235	slurry	nCi/g	2.01E-04	2.49E-06	2.04E-04	0.03	4.77E-02	7.14914E-05	1.3676E-07	7.149E-05	0.011207949	7.05E+00	2.00E+02	7.05E+00	7.18
sludge	U-238	slurry	nCi/g	1.09E-04	9.25E-07	1.10E-04	0.02	2.26E-02	2.45515E-05	5.33461E-08	2.455E-05	0.00387465	8.16E+00	1.99E+02	8.16E+00	8.54
sludge	Sr-90	slurry	nCi/g	9.74E+00	8.94E-03	9.75E+00	1521.82	2.17E+03	2.968983698	0.00035141	2.9689837	466.1421591	8.23E+00	1.03E+02	8.23E+00	8.43
sludge	Ag-108	slurry	nCi/g	1.40E-03	3.42E-06	1.40E-03	0.22	3.71E-01	0.000658672	1.71473E-06	0.0006587	0.103057301	5.58E+00	1.01E+00	5.58E+00	5.64
sludge	Ag-110	Slurry	nCi/g	2.46E-03	5.60E-06	2.47E-03	0.38	6.53E-01	0.001163936	2.80632E-06	0.0011639	0.182107554	5.57E+00	1.01E+00	5.57E+00	5.62
sludge	Ce-144	slurry	nCi/g	1.63E-02	3.32E-05	1.63E-02	2.55	4.40E+00	0.00822943	1.66391E-05	0.008023	1.255021052	5.43E+00	1.01E+00	5.43E+00	5.48
sludge	Co-58	slurry	nCi/g	2.66E-03	9.52E-06	2.87E-03	0.45	8.13E-01	0.001560894	4.77296E-06	0.0015809	0.247181194	5.10E+00	1.01E+00	5.10E+00	5.14
sludge	Co-60	Slurry	nCi/g	3.07E-01	6.85E-05	3.07E-01	47.98	7.17E+01	0.107031381	2.06606E-05	0.1070314	16.78086153	7.20E+00	1.03E+02	7.20E+00	7.33
sludge	Co-134	slurry	nCi/g	1.97E-03	3.23E-06	1.97E-03	0.31	4.56E-01	0.000678595	1.62192E-06	0.0006786	0.106403335	7.26E+00	1.01E+00	7.26E+00	7.39
sludge	Cs-137	Slurry	nCi/g	1.11E+01	1.26E-02	1.11E+01	1739.00	2.45E+03	3.247218988	0.000772903	3.2472191	510.1036607	8.56E+00	1.95E+02	8.56E+00	8.79
sludge	Eu-152	Slurry	nCi/g	4.46E-02	2.14E-05	4.46E-02	6.96	9.59E+00	0.012099506	1.07392E-05	0.0120995	1.902607116	9.00E+00	1.01E+00	9.00E+00	9.28
sludge	Eu-154	slurry	nCi/g	6.00E-02	7.31E-06	6.00E-02	9.37	1.31E+01	0.017087471	3.66811E-06	0.0170875	2.685090052	8.73E+00	1.01E+00	8.73E+00	8.97
sludge	Eu-155	slurry	nCi/g	5.56E-03	1.07E-05	5.57E-03	0.87	1.20E+00	0.001529532	5.34748E-06	0.0015295	0.240470783	8.94E+00	1.01E+00	8.94E+00	9.20
sludge	Mn-54	Slurry	nCi/g	1.02E-03	3.33E-06	1.03E-03	0.16	2.90E-01	0.000563713	1.66833E-06	0.0005637	0.088140719	5.11E+00	1.01E+00	5.11E+00	5.15
sludge	Nt-95	slurry	nCi/g	6.30E-03	1.06E-05	6.31E-03	0.98	2.27E+00	0.005384968	5.30329E-06	0.005385	0.841065932	4.43E+00	1.01E+00	4.43E+00	4.44
sludge	Ra-226	Slurry	nCi/g	7.63E-04	5.55E-06	7.68E-04	0.12	2.11E-01	0.000394206	2.78423E-06	0.0003942	0.061654715	5.28E+00	1.01E+00	5.28E+00	5.33
sludge	Ru-103	slurry	nCi/g	2.36E-02	5.68E-05	2.36E-02	3.69	6.43E+00	0.011872766	2.85052E-05	0.0118728	1.85705784	5.36E+00	1.01E+00	5.36E+00	5.41
sludge	Ru-106	slurry	nCi/g	1.91E-02	4.15E-05	1.91E-02	2.99	5.15E+00	0.00934906	2.08375E-05	0.0093491	1.46249957	5.46E+00	1.01E+00	5.46E+00	5.50
sludge	St-125	slurry	nCi/g	7.71E-03	1.71E-05	7.73E-03	1.21	2.10E+00	0.003860662	8.55156E-06	0.0038607	0.60387288	5.38E+00	1.01E+00	5.38E+00	5.43
sludge	Zn-65	slurry	nCi/g	2.57E-03	7.62E-06	2.58E-03	0.40	7.25E-01	0.001396969	3.82279E-06	0.001397	0.218437735	5.15E+00	1.01E+00	5.15E+00	5.18
sludge	Zr-95	slurry	nCi/g	5.56E-03	1.89E-05	5.57E-03	0.87	1.58E+00	0.003097465	9.50173E-06	0.0030975	0.48429028	5.08E+00	1.01E+00	5.08E+00	5.12
sludge	1-129	slurry	nCi/g	8.57E-05	1.11E-06	8.68E-05	0.01	2.41E-02	4.57354E-05	5.56845E-07	4.574E-05	0.007152681	5.19E+00	1.01E+00	5.19E+00	5.23
sludge	Ni-63	slurry	nCi/g	2.12E+00	1.27E-03	2.13E+00	331.78	4.95E+02	0.735185386	0.000103788	0.7351854	1152726893	7.24E+00	1.54E+02	7.24E+00	7.38

Table C-9 V-2 Tank Properties

Tank V-2			Reporting Basis	Unit	A	B	C	D	A	E	C	D	A	P	C	D	
Data Set	Matrn	Constituent			Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg					Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom	
1980	sludge	Al	Dry weight	wt fraction	6.81E+00	8.96E-04	6.81E+00	1.12E+03	1.58E+03	2.150547623	0.000449322	2.150548	3560686	9.44E+01	1.01E+00	9.44E+01	96.63
1980	sludge	Ca	Cry weight	wt fraction	1.36E+01	2.67E-02	1.36E+01	2.25E+03	3.16E+03	4.301095245	0.001634317	4.301096	712.153	9.44E+01	2.92E+00	9.44E+01	96.64
1980	sludge	Cr	Cry weight	wt fraction	6.81E+00	1.69E-04	6.81E+00	1.12E+03	1.58E+03	2.150547623	8.46798E-05	2.150548	3560683	9.44E+01	1.01E+00	9.44E+01	96.63
1980	sludge	Fe	Cryweight	wt fraction	3.40E+01	1.94E-03	3.40E+01	5.60E+03	7.90E+03	10.75273811	9.61564E-05	10.75274	1780.342	9.44E+01	7.26E+00	9.44E+01	96.63
1980	sludge	Mg	Dry weight	wt fraction	1.36E+01	5.97E-02	1.37E+01	2.25E+03	3.17E+03	4.301095245	0.003997272	4.301097	712.1737	9.44E+01	2.34E+00	9.44E+01	96.65
1980	sludge	Mn	Dry weight	wt fraction	1.36E+01	1.97E-03	1.36E+01	2.24E+03	3.16E+03	4.301095245	0.000111227	4.301095	712.1377	9.44E+01	3.76E+00	9.44E+01	96.63
1980	sludge	Si	Dry weight	wt fraction	1.36E+02	3.00E-02	1.36E+02	2.24E+04	3.16E+04	4.301095245	0.003643615	43.01095	7121.383	9.44E+01	1.25E+00	9.44E+01	96.63
1980	sludge	P	Cryweight	wt fraction	8.17E+01	2.39E-02	8.17E+01	1.35E+04	1.90E+04	25.80657147	0.0001514284	25.80657	4272.833	9.44E+01	2.66E+00	9.44E+01	96.63
1996	sludge	Sb	Slurry	wt fraction	5.92E-03	9.26E-04	6.85E-03	1.13E+00	1.93E+00	0.0001574958	0.00003655	0.001575	0.262197	1.54E+00	1.00E+02	1.54E+00	161
1996	sludge	AS	Slurry	wt fraction	3.87E-03	2.15E-05	3.89E-03	6.41E-01	1.38E+00	0.001449914	0.00000385	0.00145	0.239666	1.23E+00	1.00E+02	1.23E+00	125
1996	sludge	Ba	Slurry	wt fraction	4.20E-02	7.02E-04	4.27E-02	7.03E+00	1.31E+01	0.01975581	0.000352113	0.019981	1.986799	1.45E+00	1.01E+00	1.45E+00	149
1996	sludge	Be	Slurry	wt fraction	4.67E-03	4.19E-04	5.09E-03	8.37E-01	1.71E+00	0.001654754	0.000411651	0.001705	0.262142	1.26E+00	1.00E+00	1.42E+00	145
1996	sludge	Cd	Slurry	wt fraction	2.52E-02	1.90E-05	2.52E-02	4.14E+00	7.36E+00	0.006284556	9.50488E-06	0.003285	1.044226	1.84E+00	1.01E+00	1.64E+00	170
1996	sludge	Fluoride	Slurry	wt fraction	7.09E-03	2.15E-02	2.86E-02	4.71E+00	1.03E+01	0.002211951	0.010800998	0.011025	1.821915	4.03E+00	1.01E+00	1.10E+00	112
1996	sludge	Pb	Slurry	wt fraction	3.39E-01	1.59E-05	3.39E-01	5.58E+01	1.11E+02	0.10838945	7.99274E-06	0.108309	17.93048	1.34E+00	1.01E+00	1.34E+00	137
1996	sludge	Hg	Slurry	wt fraction	3.84E-01	4.31E-06	3.86E-01	6.32E+01	1.57E+01	0.052321623	2.1602E-06	0.052322	8.883381	6.63E+00	1.01E+00	6.63E+00	751
1996	sludge	Ni	Slurry	wt fraction	8.44E-02	1.87E-03	8.63E-02	1.42E+01	2.78E+01	0.026623941	0.000123517	0.026624	4.409446	1.35E+00	2.41E+00	1.35E+00	138
1996	sludge	Se	Slurry	wt fraction	1.42E-03	2.15E-05	1.44E-03	2.37E-01	6.49E-01	0.000811864	1.0801E-05	0.000812	0.133887	1.09E+00	1.01E+00	1.09E+00	110
1993	sludge	Ag	Slurry	wt fraction	5.24E-02	1.03E-05	5.24E-02	8.63E+00	1.88E+01	0.019932449	5.18494E-06	0.019902	3.289277	1.22E+00	1.01E+00	1.22E+00	124
1996	sludge	Sulfate	Slurry	wt fraction	1.13E-01	5.07E-02	1.63E-01	2.69E+01	4.37E+01	0.060854754	0.026864286	0.066521	10.98798	3.30E+00	1.01E+00	4.20E+00	426
1996	sludge	Tl	Slurry	wt fraction	3.01E-02	1.72E-05	3.01E-02	4.95E+00	1.36E+01	0.017111572	8.6408E-06	0.017112	2.82159	1.09E+00	1.01E+00	1.09E+00	110
1996	sludge	V	Slurry	wt fraction	1.22E-03	2.11E-04	1.43E-03	2.36E-01	5.93E-01	0.000695982	0.000104992	0.000704	0.116133	1.09E+00	1.01E+00	1.14E+00	115
1996	sludge	Zn	Slurry	wt fraction	4.66E-01	6.31E-04	4.67E-01	7.68E+01	1.52E+02	0.147721868	7.93808E-05	0.147722	24.45783	1.34E+00	1.23E+00	1.34E+00	137
1996	sludge	Chloride	Slurry	wt fraction	1.07E-01	5.13E-01	6.19E-01	1.02E+02	1.45E+02	0.032737501	0.075962325	0.082716	14.06151	4.07E+00	1.16E+00	1.61E+00	184
1996	sludge	Na	Slurry	wt fraction	3.90E-01	1.76E+00	2.14E+00	3.53E+02	3.91E+02	0.1130675	0.069308464	0.132619	24.99882	1.43E+00	1.00E+02	2.69E+00	463
1996	sludge	K	Slurry	wt fraction	5.78E-01	1.18E+00	1.76E+00	2.89E+02	3.94E+02	0.190762961	0.047369794	0.196556	33.8584	1.31E+00	9.58E+00	1.48E+00	177
1996	sludge	B	Slurry	wt fraction	6.63E-03	8.66E-03	1.53E-02	2.52E+00	3.81E+00	0.02367327	0.000789185	0.002489	0.4188	1.26E+00	1.55E+00	1.52E+00	166
1996	sludge	c o	Slurry	wt fraction	1.77E-03	1.49E-04	1.1R-03	3.16E-01	4.41E-01	0.000387572	7.56003E-05	0.000395	0.065904	1.94E+00	1.01E+00	2.08E+00	220
1996	sludge	c u	Slurry	wt fraction	1.99E-01	5.17E-05	1.99E-01	3.27E+01	3.88E+01	0.025281079	2.37762E-05	0.025281	4311768	7.40E+00	1.01E+00	7.40E+00	854
1996	sludge	Sn	Slurry	wt fraction	1.07E-02	0.00E+00	1.07E-02	1.75E+00	#DIV/0!	0.002872823	0	0.002878	0.477587	1.51E+00	#DIV/0!	#DIV/0!	#DIV/0!
1996	sludge	Bromide	Slurry	wt fraction	1.11E-02	5.25E-03	1.63E-02	2.69E+00	3.55E+00	0.000376688	0.0002074	0.003383	0.564493	4.09E+00	1.00E+02	4.12E+00	435
1993	sludge	Ndrate	Slurry	wt fraction	2.0E-03	8.61E-03	1.19E-02	1.88E+00	4.13E+00	0.00088478	0.004320399	0.00441	0.728766	4.03E+00	1.01E+00	1.10E+00	112
1996	sludge	Nitrite	Slurry	wt fraction	5.67E-03	1.72E-02	2.29E-02	3.77E+00	8.26E+00	0.001769561	0.008640798	0.00882	1457532	4.03E+00	1.01E+00	1.10E+00	112
1996	sludge	Phosphate	Slurry	wt fraction	2.29E-02	9.56E-02	1.19E-01	1.95E+01	2.14E+01	0.004075441	0.006057134	0.007301	1377453	7.42E+00	2.66E+00	5.23E+00	901
														#VALUE!			
1996	sludge	Aroclor-1260	Dry weight	wt fraction	1.48E-01	4.31E-04	1.49E-01	2.44E+01	2.96E+01	0.021538024	0.00021602	0.021539	3644206	6.60E+00	1.01E+00	6.60E+00	737
1993	sludge	TCE	Slurry	wt fraction	1.13E-03	1.29E-03	2.42E-03	3.99E-01	6.24E-01	0.000606469	0.000393971	0.000722	0.119559	1.03E+00	1.03E+02	2.07E+00	213
1993	sludge	PCE	Slurry	wt fraction	8.40E-01	4.31E-05	8.40E-01	1.38E+02	1.61E+02	0.085039163	2.1602E-05	0.085069	14.79298	3.54E+00	1.01E+00	3.54E+00	441
1993	sludge	chloromethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E-01	0.000606469	1.30324E-05	0.0M607	0.100065	1.03E+00	1.03E+02	1.04E+00	104
1993	sludge	bromochethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E-01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	105
1993	sludge	TCA	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E-01	0.000606469	2.1602E-05	0.000607	0.100151	1.03E+00	1.03E+02	1.04E+00	105
1993	sludge	vinyl chloride	Slurry	wt fraction	1.13E-03	8.61E-05	1.22E-03	2.00E-01	5.09E-01	0.000606469	2.60847E-05	0.000607	0.100151	1.03E+00	1.01E+00	1.04E+00	105
1993	sludge	chloroethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E-01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	105
1993	sludge	methylene chloride	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E-01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	105

Table C-9. (continued).

rank V-2																	
Data Set	Matrix	Constituent	Reporting Basis	Unit	A Kg in Sludge	B Kg In Liquid	C Taal Kg	D Total mg/Kg	90% U.a	A Standard error	B Standard error	C Standard error	D Standard error	A Degree of Freedom	B Degree of Freedom	C Degree of Freedom	D Degree of Freedom
1993	sludge	acetone	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.0E100	1.05
1993	sludge	carbon disulfide	Slurry	wt fraction	1.13E-03	4.31E-05	11% -03	1.93E 01	5.01E 01	0.000606469	2.1602E 05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	1,1-dichloroethylene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E-01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	1,1-dichloroethane	Slurry	wt fraction	1.13E-03	1.55E-04	1.29E-03	2.12E 01	5.21E 01	0.000606469	4.69165E-05	0.003608	0.100384	1.03E+00	1.03E+02	1.05E+00	1.06
1993	sludge	trans-1,2-dichloroethylene	Slurry	wt fraction	1.13E-03	1.59E-03	2.73E-03	4.49E 01	6.91E 01	0.000606469	0.000482197	0.000775	0.128462	1.03E+00	1.03E+02	2.74E+00	2.83
1993	sludge	chloroform	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E100	1.04E+00	1.05
1993	sludge	1,2-dichloroethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	2-butanone	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	carbon tetrachloride	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	bromodichloromethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E 05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	1,2-dichloropropane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	cis 1,2-dichloropropylene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E 05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	dibromochloromethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	1,1,2-trichloroethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	benzene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	trans-1,3-dichloropropylene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	bromoform	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	4-methyl-2-pentanone	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0130607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	2-hexanone	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	1,1,2,2-tetrachloroethane	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	toluene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	chlorobenzene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	ethylbenzene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.0M607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	styrene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	cis-1,2-dichloroethylene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1993	sludge	xylene	Slurry	wt fraction	1.13E-03	4.31E-05	1.18E-03	1.93E 01	5.01E 01	0.000606469	2.1602E-05	0.000607	0.100105	1.03E+00	1.01E+00	1.04E+00	1.05
1996	sludge	2-methylnaphthalene	Dry weight	wt fraction	2.47E-02	4.31E-03	2.90E-02	4.77E+00	6.58E+00	0.006747767	0.0021602	0.007085	117772	3.90E+00	1.01E+00	4.56E+00	4.74
19%	sludge	1,2-dichlorobenzene	Dry weight	wt fraction	4.36E-02	2.28E-03	4.59E-02	755E+00	1.48E+01	0.026703889	0.002032737	0.026781	4415619	3.16E+00	1.00E+00	3.20E+00	3.22
1996	sludge	naphthalene	Dry weight	wt fraction	1.01E-01	4.31E-03	1.05E-01	1.74E+01	2.64E+01	0.033338923	0.0021602	0.033409	5531312	3.59E+00	1.01E+00	3.62E+00	3.71
19%	sludge	bis(2-ethylhexyl)phthalate	Dry weight	wt fraction	3.57E+00	6.16E-04	3.58E+00	5.89E+02	1.03E+03	1.614662338	0.0002467	1614662	2665337	3.30E+00	1.02E+00	3.30E+00	3.34
19%	sludge	1,2,4-trichlorobenzene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0M602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	1,3-dichlorobenzene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	1,4-dichlorobenzene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E100	3.51E+00	3.58
1996	sludge	2,4-dimethylphenol	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	2-methylphenol	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	4-methylphenol	Cry Weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.017026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	di-n-butylphthalate	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	phenanthrene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	phen	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	Total Carbon	Slurry	wt fraction	2.02E+02	4.52E-01	2.03E+02	3.34E+04	5.16E+04	6531431195	0.0136839713	8531442	1408919	663E+01	1.03E+02	6.63E+01	67 24
1996	sludge	2,4,5-trichlorophenol	Dry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	111E+02	1.72E+02	0.025601346	0.010800998	0.02586	3737086	3.53E+00	1.01E+00	3.55E+00	3.63
1996	sludge	2,4,6-trichlorophenol	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	2,4-dichlorophenol	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	2,4-dinitrophenol	Cry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	111E+02	1.72E+02	0.025601346	0.010800998	0.02586	3737086	3.53E+00	1.01E+00	3.55E+00	3.63
1996	sludge	2,4-dinitrotoluene	Cryweight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0M602	0.047076	778631	3.49E+00	1.01E100	3.51E+00	3.58
1996	sludge	2,6-aminotoluene	Cryweight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0M602	0.047076	778631	3.49E+00	1.01E+00	3.51E+00	3.56

Table C-9. (continued).

Tank V-2																	
Data Set	Matrix	Constituent	Reporting Basis	Unit	A Kg in Sludge	B Kg in Liquid	C Tdal Kg	D Total mg/Kg	90% U a	A Standard error	B Standard error	C Standard error	D Standard error	A Degree of Freedom	B Degree of Freedom	C Degree of Freedom	D Degree of Freedom
1996	sludge	2-chlorophthalene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	2-chlorophenol	Cry wsght	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	2-nitroaniline	Cry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
1996	sludge	2-nitrophenol	Cry waight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	3,3'-dichlorobenzidine	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	3-nitroaniline	Dry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
19%	sludge	4,6-dinitro-2-methylphenol	Cry waight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
19%	sludge	4-bromophenyl-phenyl ether	Cry waight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	4-chloro-3-methylphenol	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	4-chloroaniline	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026098	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	4-chlorophenyl-phenyl ether	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.56
1996	sludge	4-nitroaniline	Cry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
19%	sludge	4-nitrophenol	Cry waight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
19%	sludge	acenaphthene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	acenaphthylene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.56
1996	sludge	anthracene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	benzo(a)anthracene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	benzo(a)pyrene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	benzo(b)fluoranthene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	benzo(g,h,i)perylene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	benzo(k)fluoranthene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	benzoic acid	Dry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
19%	sludge	benzyl alcohol	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	Sludge	butylbenzylphthalate	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	carbozole	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	chrysene	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	d-n-octylphthalate	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	dibenzo(a,h)anthracene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	dibenzofuran	Dry wsght	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	diethylphthalate	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	dimethylphthalate	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	fluoranthene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	fluorene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	hexachlorobenzene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	hexachlorobutadiene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	hexachlorocyclopentadiene	Dry wght	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026098	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	hexachloroethane	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	indeno(1,2,3-cd)pyrene	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	isophorone	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	N-tropso-di-n-propylamine	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	N-nitrosodiphenylamine	Dry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	nitrobenzene	Cry waight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
19%	sludge	pentachlorophenol	Cry weight	wt fraction	6.52E-01	2.15E-02	6.74E-01	1.11E+02	1.72E+02	0.225601346	0.010800998	0.22586	37.37086	3.53E+00	1.01E+00	3.55E+00	3.63
1996	sludge	pyrene	Cry weight	wt fraction	1.31E-01	2.27E-03	1.33E-01	2.19E+01	3.47E+01	0.047026099	0.002043475	0.047076	7.784318	3.49E+00	1.00E+00	3.51E+00	3.57
19%	sludge	pyridine	Cry weight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	bis(2-chloroethoxy)methane	Cry wsght	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58

Table C-9.(continued).

Data Set	Matrix	Constituent	Reporting Basis	Unit	A Kg/in Sludge	B Kg/in Liquid	C Taal Kg	D Total mg/Kg	90% UCL	A Standard error	E Standard error	C Standard error	D Standard error	A Degree of Freedom	B Degree of Freedom	C Degree of Freedom	D Degree of Freedom
1996	sludge	bis(2-chloroethyl)ether	Cryweight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	sludge	bis(2-chloroisopropyl)ether	Cryweight	wt fraction	1.31E-01	4.31E-03	1.35E-01	2.23E+01	3.50E+01	0.047026099	0.0021602	0.047076	7.78631	3.49E+00	1.01E+00	3.51E+00	3.58
1996	slurry	Pu-238	Slurry	nCv/g	1.12E-02	2.05E-06	1.12E-02	184E+00	2.67E+00	0.003260405	1.09875E-07	0.00326	0.540391	4.22E+00	1.99E+02	4.22E+00	4.34
1996	slurry	Pu-2391240	Slurry	nCv/g	9.45E-03	1.22E-06	9.45E-03	1.58E+00	1.92E+00	0.001567785	2.02892E-08	0.001568	0.263569	8.23E+00	1.99E+02	8.23E+00	8.96
1996	slurry	Am241	Slurry	nCv/g	3.52E-03	2.54E-07	3.52E-03	5.80E-01	7.74E-01	0.000789151	0.000789	0.000789	0.13142	5.37E+00	1.43E+02	5.37E+00	5.63
1996	slurry	Cm-242	Slurry	nCv/g	6.21E-06	2.15E-08	6.21E-06	1.03E-03	1.72E-03	2.55364E-06	1.0801E-08	2.55E-06	0.000422	3.55E+00	1.01E+00	3.55E+00	3.60
1996	slurry	Cm-2431244	Slurry	nCv/g	2.29E-04	8.98E-08	2.30E-04	3.78E-02	4.99E-02	4.91715E-05	1.10307E-08	4.92E-05	0.008198	5.67E+00	1.13E+02	5.67E+00	5.97
1996	slurry	Np-237	Slurry	nCv/g	3.71E-05	1.19E-07	3.73E-05	6.13E-03	9.19E-03	1.20476E-05	5.96215E-08	1.2E-05	0.001994	3.94E+00	1.01E+00	3.94E+00	4.03
1996	slurry	U-233/234	Slurry	nCv/g	4.59E-03	1.66E-04	4.76E-03	7.83E-01	9.32E-01	0.00063562	8.62611E-06	0.000636	0.108054	9.32E+00	1.95E+02	9.32E+00	10.61
1996	slurry	U-235	Slurry	nCv/g	1.40E-04	6.89E-06	1.47E-04	2.43E-02	2.87E-02	1.90608E-05	3.64107E-07	1.91E-05	0.003248	9.17E+00	1.97E+02	9.18E+00	10.53
1996	slurry	U-238	Slurry	nCdG	1.26E-04	2.15E-06	1.28E-04	2.10E-02	2.80E-02	2.8975E-05	1.13764E-07	2.83E-05	0.0M714	5.33E+00	1.98E+02	5.33E+00	5.60
1996	slurry	Sr-90	Slurry	nCv/g	1.94E+01	2.11E-02	1.95E+01	3.20E+03	3.93E+03	3.139628256	0.000836364	3.139628	5284456	8.55E+00	1.02E+02	8.55E+00	9.34
1996	slurry	Ag-108	Slurry	nCdG	1.43E-03	1.71E-05	1.45E-03	2.39E-01	3.86E-01	0.000542925	8.55439E-06	0.000543	0.089751	3.66E+00	1.01E+00	3.66E+00	3.72
1996	slurry	Ag-110	Slurry	nCv/g	2.42E-03	3.07E-05	2.45E-03	4.03E-01	7.55E-01	0.00133356	1.53908E-05	0.001338	0.220735	3.29E+00	1.01E+00	3.29E+00	3.32
1996	slurry	Ca-144	Slurry	nCv/g	1.35E-02	1.63E-04	1.36E-02	2.25E+00	4.17E+00	0D07104806	8.16555E-05	0.007105	1.17203	3.32E+00	1.01E+00	3.32E+00	3.35
1996	Slurry	Co-58	Slurry	nCv/g	2.20E-03	6.89E-06	2.21E-03	3. M E 01	7.10E-01	0.001280217	3.45632E-06	0.00128	0.211087	3.26E+00	1.01E+00	3.26E+00	3.28
1996	slurry	Co-60	Slurry	nCv/g	3.81E-01	5.60E-05	3.81E-01	6.27E+01	1.20E+02	0.0212560138	1.69421E-05	0.021256	35.0524	3.28E+00	1.03E+02	3.28E+00	3.31
1995	slurry	Cs-134	Slurry	nCv/g	7.78E-04	3.29E-06	7.81E-04	1.29E-01	2.24E-01	0.000353524	1.65039E-06	0.000354	0.058356	3.44E+00	1.01E+00	3.44E+00	3.48
1996	slurry	Cs-137	Slurry	nCv/g	1.10E+01	5.81E-02	1.10E+01	1.82E+03	2.68E+03	3.301753639	0.0003511253	3.301756	547.0452	4.13E+00	1.96E+02	4.13E+00	4.24
1996	Slurry	Eu-152	Slurry	nCv/g	2.29E-02	2.05E-05	2.2B-02	3.77E+00	8.02E+00	0.015762576	1.02826E-05	0.015763	2.597633	3.18E+00	1.01E+00	3.18E+00	3.20
1996	slurry	Eu-154	Slurry	nCdG	3.28E-02	7.84E-06	3.28E-02	5.41E+00	7.05E+00	0.006826951	3.93156E-06	0.006827	1.139048	5.90E+00	1.01E+00	5.90E+00	6.23
1996	slurry	Eu-155	Slurry	nCv/g	5.67E-03	6.20E-05	5.73E-03	9.44E-01	1.41E+00	0.00183776	3.11069E-05	0.001838	0.30427	3.94E+00	1.01E+00	3.95E+00	4.04
1995	slurry	Mn-54	Slurry	nCv/g	8.25E-04	3.08E-06	8.28E-04	1.36E-01	2.62E-01	0.000466932	1.5467E-06	0.000467	0.076997	3.28E+00	1.01E+00	3.28E+00	3.30
1996	slurry	Nb-95	Slurry	nCv/g	2.32E-03	8.44E-06	2.33E-03	3.83E-01	7.44E-01	0.001334189	4.23399E-06	0.001334	0.219995	3.27E+00	1.01E+00	3.27E+00	3.29
1996	Slurry	Ra-226	Slurry	nCv/g	3.48E-03	1.77E-05	3.49E-03	5.75E-01	1.43E+00	0.003164556	8.85682E-06	0.003165	0.521236	3.10E+00	1.01E+00	3.10E+00	3.11
1995	Slurry	Ru-103	slurry	nCv/g	1.71E-02	1.55E-04	1.72E-02	2.83E+00	5.38E+00	0.009411244	7.77672E-05	0.009412	1.55214	3.29E+00	1.01E+00	3.29E+00	3.32
1996	slurry	Ru-106	Slurry	nCv/g	1.60E-02	1.99E-04	1.62E-02	2.66E+00	5.01E+00	0.008700886	9.98012E-05	0.008701	1435126	3.30E+00	1.01E+00	3.30E+00	3.33
1996	slurry	Sb-125	Slurry	nCv/g	6.27E-03	7.92E-05	6.35E-03	1.04E+00	1.91E+00	0.00321785	3.97477E-05	0.003218	0.530894	3.34E+00	1.01E+00	3.34E+00	3.37
1996	slurry	Zn-65	Slurry	nCv/g	2.10E-03	7.32E-06	2.11E-03	3.48E-01	6.85E-01	0.00124834	3.67234E-06	0.001248	0.205816	3.25E+00	1.01E+00	3.25E+00	3.27
1996	slurry	Zr-95	Slurry	nCv/g	4.15E-03	1.38E-05	4.16E-03	6.85E-01	1.33E+00	0.002372827	6.91264E-06	0.002373	0.391228	3.27E+00	1.01E+00	3.27E+00	3.29
1996	slurry	I-129	Slurry	nCv/g	9.80E-05	7.28E-07	9.88E-05	1.63E-02	2.75E-02	4.15456E-05	3.65074E-07	4.15E-05	0.006861	3.51E+00	1.01E+00	3.51E+00	3.56
1996	slurry	Ni-63	Slurry	nCdG	1.31E+00	1.93E-03	1.31E+00	2.15E+02	3.31E+02	0.429245153	0.000158599	0.429245	71.03899	3.91E+00	1.55E+02	3.91E+00	4.00

Table C-10. V-3 Tank Properties.

Data Set	Matrix	Constituent	Reponing Basis	Unit	A	B	C	D	A	B	C	D	Dagree of	Ddegree of	Degree of	Degree of	
					Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	standard error	standard error	standard error	standard src	Freedom	Freedom	Freedom	Freedom
1980	sludge	Al	Dry weight	wt fraction	8 12E+00	6 03E-03	8 13E+00	258E+02	359E+02	247508871	0 0030159	2475091	7857124	1 06E+02	1 00E+00	1 06E+02	10657
1980	sludge	Ca	Dry weight	wt fraction	203E+01	1 46E+00	2 18E+01	6 90E+02	9 44E+02	6 187721774	0 0035851671	6 187826	1964388	1 06E+02	1 13E+00	1 06E+02	10659
1980	sludge	Cr	Dry weight	wl fraction	8 12E-01	3 10E-04	8 12E-01	258E+01	359E+01	0 247508871	0 000153695	0 247509	7 857118	1 06E+02	1 00E+00	1 06E+02	10657
1980	sludge	Fe	Dry weight	wt fractim	5 08E+01	3 55E-03	5 08E+01	1 61E+03	2 24E+03	1546930443	0 00184143	154693	491 0697	1 06E+02	1 00E+00	1 06E+02	10658
1980	sludge	Mg	Dry weight	wt fraction	3 05E+01	4 67E-01	3 09E+01	9 81E+02	1 36E+03	9 281582661	0 005268005	9 28173	294 6489	1 06E+02	1 01E+00	1 06E+02	10657
1980	sludge	Mn	Dry weight	wt fraction	1 02E+01	2 19E-02	1 02E+01	3 23E+02	4 49E+02	3093860887	0 000304583	3093861	98 21405	1 06E+02	1 49E+00	1 06E+02	10657
1980	sludge	Si	Dry weight	wt fraction	1 93E+02	2 02E-01	1 93E+02	6 13E+03	8 53E+03	5878335685	0 014259016	58 78336	1866 066	1 06E+02	1 01E+00	1 06E+02	10657
1980	sludge	P	Dry weight	wt fraction	1 32E+02	182E-02	1 32E+02	4 19E+03	5 83E+03	40 22019153	0 005459752	40 22019	1276 781	1 06E+02	1 00E+02	1 06E+02	10657
1996	sludge	Sb	Slurry	wt fraction	5 15E-03	6 28E-03	1 14E-02	3 63E-01	4 13E-01	0 0310718	5 72584E 05	0 001073	0 034157	5 72E+00	299E+00	5 75E+00	5 81
1996	sludge	As	Slurry	wl fraction	4 46E-03	128E-04	4 59E-03	1 45E-01	1 86E-01	0 000678489	6 37979E-05	0 000881	0 027972	6 11E+00	100E+00	6 17E+00	6 19
1996	sludge	Ba	Slurry	wt fraction	6 10E-02	5 51E-03	6 65E-02	2 11E+00	2 52E+00	0 008921236	0 002769406	0 009341	0 29882	7 73E+00	100E+00	8 67E+00	8 71
1996	sludge	Be	Slurry	wl fraction	8 0E-03	1 0ME-03	8 14E-03	2 %E-01	3 48E 01	0 001867833	5 07485E-05	0 001869	0 059328	5 07E+00	100E+00	5 08E+00	5 09
1996	sludge	Cd	Slurry	wt fraction	2 71E-02	1 28E-04	2 72E-02	8 0WE 01	1 06E+00	0 004315137	6 37979E 05	0 00M312	0 13698	7 65E+00	100E+00	7 65E+00	7 68
1996	sludge	Fluoride	Slurry	wt fraction	1 09E-02	1 45E-01	1 56E-01	4 95E+00	1 20E+01	0 0003397113	0 072497601	0 072577	2 303604	4 02E+00	100E+00	1 00E+00	1 01
1996	sludge	Pb	Slurry	wl fraction	3 81E-01	1 46E-03	3 83E-01	1 21E+01	1 51E+01	0 065637604	0 000537522	0 06564	2 084881	7 16E+00	100E+00	7 16E+00	7 18
1996	sludge	Hg	Slurry	wt fraction	6 08E-01	2 90E-05	6 06E-01	1 92E+01	2 27E+01	0 073909771	1 44995E 05	0 07391	2 349439	5 40E+00	100E+00	5 40E+00	5 43
1996	sludge	Ni	Slurry	wt fraction	1 28E-01	5 34E-03	1 34E-01	4 24E+00	5 60E+00	0 028985886	4 29234E-05	0 028986	0 920385	5 22E+00	4 73E+00	5 22E+00	5 23
1996	sludge	Se	Slurry	wl fraction	5 12E-03	1 45E-04	5 27E-03	1 67E 01	2 61E 01	0 001796536	7 24797E-05	0 001798	0 057074	3 78E+00	100E+00	3 79E+00	3 79
1996	sludge	Ag	slurry	wt fraction	3 71E-02	6 96E-05	3 71E-02	1 18E+00	1 89E+00	0 013758369	3 47988E-05	0 013758	0 436721	3 69E+00	100E+00	3 69E+00	3 69
1996	sludge	Sulfate	Slurry	wt fraction	2 74E-01	4 55E-01	7 29E-01	2 31E+01	3 23E+01	0 158898527	0 136602564	0 209545	6 65217	3 26E+00	100E+02	9 69E+00	9 70
1996	sludge	Tl	Slurry	wt fraction	3 21E-02	1 16E-04	3 22E-02	1 02E+00	1 71E+00	0 013195827	5 79981E-05	0 013196	0 418851	3 55E+00	100E+00	3 55E+00	3 55
1996	sludge	V	Slurry	wt fraction	2 25E-03	1 37E-03	3 63E-03	1 15E 01	1 71E 01	0 00063373	0 0006681478	0 000931	0 029515	4 30E+00	100E+00	2 96E+00	2 97
1996	sludge	Zn	Slurry	wt fraction	1 34E+00	2 45E-02	1 38E+00	4 31E+01	6 01E+01	0 349104352	0 003482667	0 349122	11 08397	4 55E+00	100E+00	4 55E+00	4 56
1996	sludge	Chloride	slurry	wl fraction	1 28E-01	2 21E+00	2 34E+00	7 42E+01	1 01E+02	0 015851577	0 663000978	0 66319	21 05368	5 69E+00	100E+02	100E+02	10031
1996	sludge	Na	Slurry	wt fraction	5 66E-01	4 77E+00	5 34E+00	1 69E+02	1 80E+02	0 200584520	0 077184642	0 215151	6 928795	3 76E+00	133E+00	4 68E+00	4 96
1996	sludge	K	Slurry	wl fraction	3 76E-01	1 44E+00	1 82E+00	5 77E+01	6 23E+01	0 079616521	0 058620638	0 098869	3 163266	5 61E+00	104E+00	5 17E+00	5 34
1996	sludge	B	Slurry	wl fraction	1 32E-02	2 06E-01	2 19E-01	6 96E+00	7 54E+00	0 002383526	0 005219552	0 005738	0 188412	6 78E+00	112E+00	1 62E+00	1 86
1996	sludge	Co	Slurry	wt fraction	2 74E-03	1 01E-03	3 75E 03	1 19E 01	1 60E 01	0 000586304	0 000521981	0 000785	0 024927	5 54E+00	100E00	3 97E+00	3 98
1996	sludge	Cu	Slurry	wl fraction	9 00E-02	2 83E-04	9 03E-02	2 87E+00	3 44E+00	0 012753695	0 000137746	0 012754	0 405271	7 56E+00	100E+00	7 56E+00	7 60
1996	sludge	Sn	Slurry	wt fraction	1 76E-02	0 00E+00	1 76E-02	5 ME 01	#DIV/0!	0 002705924	0	0 002706	0 085964	7 76E+00	#DIV/0!	#DIV/0!	#DIV/0!
1996	sludge	Bromide	Slurry	wl fraction	2 18E-02	5 22E-02	7 40E-02	2 35E+00	3 05E+00	0 006794227	0 01566144	0 017072	5 042042	4 02E+00	1 00E+02	7 51E+01	75 21
1996	sludge	Nitrate	Slurry	wt fraction	4 36E-03	4 99E-03	9 34E-03	2 97E 01	3 82E 01	0 001358845	0 001495538	0 002021	0 OM186	4 02E+00	1 00E+02	1 86E+01	18 62
1996	sludge	Nitrite	Slurry	wt fraction	8 71E-03	1 16E-01	1 25E-01	3 98E+00	9 63E+00	0 002717691	0 0057998081	0 058062	1842883	4 02E+00	100E+00	100E+00	10 1
1996	sludge	Phosphate	Slurry	wt fraction	6 5K-03	7 28E-02	7 93E-02	2 52E+00	3 42E+00	0 002038268	0 0021839009	0 021934	0 696326	4 02E+00	1 00E+02	1 02E+02	10 177
													#VALUE!				
1996	sludge	Aroclor-1260	Dry weight	wt fraction	3 15E-01	2 90E-03	3 18E-01	1 01E+01	1 26E+01	0 0048637565	0 0001449952	0 048659	1545861	3 89E+00	100E+00	3 89E+00	3 91
1993	sludge	TCE	Slurry	wl fraction	1 55E-03	5 80E-03	7 34E-03	2 33E-01	3 13E-01	0 000795788	0 000174016	0 001913	0 060749	1 02E+00	100E+02	2 77E+01	27 74
1993	sludge	PCE	Slurry	wt fraction	1 14E+00	2 90E-04	1 14E+00	3 63E+01	4 09E+01	0 088007395	0 000144995	0 088008	2804414	3 82E+00	100E+00	3 82E+00	3 88
1993	sludge	chloromethane	Slurry	wt fraction	1 55E-03	2 90E-04	1 0ME-03	5 82E-02	1 36E-01	0 000795788	8 7008E 05	0 000801	0 025409	1 02E+00	1 00E+02	1 05E+00	10 5
1993	sludge	bromomethane	Slurry	wl fraction	1 55E-03	2 90E-04	1 84E-03	5 82E-02	1 37E-01	0 000795788	0 000144995	0 000809	0 025675	1 02E+00	1 00E+00	1 09E+00	10 9
1993	sludge	TCA	Slurry	wl fraction	1 55E-03	2 90E-04	1 84E-03	5 82E-02	1 37E-01	0 0W795788	0 000144995	0 000809	0 025615	1 02E+00	1 00E+00	1 09E+00	10 9
1993	sludge	viny chloride	Slurry	wl fraction	1 55E-03	3 19E-04	1 86E-03	5 92E-02	1 37E-01	0 000795788	9 57088E 05	0 000802	0 025441	1 02E+00	1 00E+02	1 05E+00	10 5
1993	sludge	chloroethane	Slurry	wt fraction	1 55E-03	2 90E-04	1 ME-03	5 82E 02	1 37E-01	0 000795788	0 000144995	0 000809	0 025675	1 02E+00	1 00E+00	1 09E+00	10 9
1993	sludge	methylene chloride	Slurry	wl fraction	1 55E-03	2 90E-04	1 84E-03	5 82E-02	1 37E-01	0 000795788	0 000144995	0 000809	0 025675	1 02E+00	1 00E+00	1 09E+00	10 9

Table C-10. (continued).

Tank V-3

Data Set	Matrix	Constituent	Reporting Basis	Unit	A B C D				A B C D				A B C D				
					Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	standard error	standard error	standard error	standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
1993	sludge	acetone	slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.003795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	carbon disulfide	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	1,1-dichloroethylene	slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	1,1-dichloroethane	Slurry	wl fraction	1.55E-03	5.51E-04	2.10E-03	6.65E-02	1.46E-01	0.030795788	0.000165315	0.000813	0.025799	1.02E+00	1.00E+02	1.11E+00	111
1993	sludge	trans. 1,2-dichloroethylene	Slurry	wt fraction	1.55E-03	5.80E-03	7.34E-03	2.33E-01	3.13E-01	0.030795788	0.00174016	0.001913	0.060749	1.02E+00	1.00E+02	2.77E+01	27.74
1993	sludge	chloroform	slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	1,2-dichloroethanw	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	2-butanone	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	carbontetrachoride	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	bromodichloromethane	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	12-dichloropropane	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	cis-1,3-dichloropropylene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	dibromochloromethane	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	1,1,2-trichloroethane	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	benzme	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	trans-1,3-dichloropropylene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	bromoform	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	4-methyl-2-pentanone	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	2-hexanone	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025875	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	1,1,2,2-tetrachloroethane	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	toluene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	chlorobenzene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.030795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	ethylbenzene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	styrene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	cis-1,2-dichloroethylene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.003795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1993	sludge	xylene	Slurry	wt fraction	1.55E-03	2.90E-04	1.84E-03	5.82E-02	1.37E-01	0.000795788	0.000144995	0.000809	0.025675	1.02E+00	1.00E+00	1.09E+00	1.09
1996	sludge	2-methylnaphthalene	Dry weight	wl fraction	1.85E-02	2.90E-02	4.75E-02	1.51E+00	3.00E+00	0.04955246	0.01449952	0.015323	0.486408	3.26E+00	1.00E+00	1.24E+00	124
1996	sludge	1,2-dichlorobenzene	Dry weight	wl fraction	2.61E-02	2.90E-02	5.51E-02	1.75E+00	3.41E+00	0EM8906218	0.01449952	0.017016	0.540177	3.16E+00	1.00E+00	1.82E+00	162
1996	sludge	naphthalene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	bis(2-ethylhexyl)phthalate	Dry weight	wl fraction	1.07E+01	2.90E-03	1.07E+01	3.38E+02	3.89E+02	1.079268449	0.00087008	1079269	34.33284	5.82E+00	1.00E+02	5.82E+00	5.87
1996	sludge	1,2,4 trichlorobenzene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	1,2-dichlorobenzene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	14-dichlorobenzene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2,4-dimethylphenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2-methylphenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	4-methylphenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	di-n-butylphthalate	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	phenanthrene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	phenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	Total Carbon	Slurry	wt fraction	2.51E+02	1.01E+00	2.52E+02	7.99E+03	1.19E+04	9527380386	0.304528008	95.27429	3024.186	7.80E+01	1.00E+02	7.80E+01	7804
1996	sludge	2,4,5-trichlorophenol	Dry weight	wl fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.384016472	0.01449952	0.38429	12.19777	3.10E+00	1.00E+00	3.11E+00	311
1996	sludge	24,6-trichlorophenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	24-dichlorophenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2,4-dinitrophenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2,4-dinitrophenol	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2,4-dinitrotoluene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2,6-dinitrotoluene	Dry weight	wl fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	0.572094	3.09E+00	1.00E+00	3.29E+00	3.29

Table C-10. (continued).

Tank V-3

Data Set	Matrix	Constituent	Reporting Basis	Unit	A B C D				A B C D				A B C D				
					Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	standard error	standard error	standard error	standard error	standard error	standard error	standard error	Degree of Freedom
1996	sludge	2-chloronaphthalene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2-chlao phenol	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	2-nitroaniline	Dry weight	wt fraction	9.0x-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19711	3.10E+00	1.00E+00	3.11E+00	3.11
1996	sludge	2-nitrophenol	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	3,3'-dichlorobenzidine	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	3-nitroaniline	Dry weight	wt fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19777	3.10E+00	1.00E+00	3.11E+00	3.11
1996	sludge	4,6-dinitro-2-methylphenol	Dry weight	wt fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19777	3.10E+00	1.00E+00	3.11E+00	3.11
1996	sludge	4-bromophenyl-phenylether	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	4-chloro-3-methylphenol	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	4-chloroaniline	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	4-chlorophenyl-phenyl ether	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	4-nitroaniline	Dry weight	wt fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19777	3.10E+00	1.00E+00	3.11E+00	3.11
1996	sludge	4-nitrophenol	Dry weight	wt fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19777	3.10E+00	1.00E+00	3.11E+00	3.11
1996	sludge	acenaphthene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	acenaphthylene	Dry Weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	anthracene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	benzo(a)anthracene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	benzo(a)pyrene	Dry Weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	benzo(b)fluoranthene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	benzo(g,h,i)perylene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	benzo(k)fluoranthene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	benzoic acid	Dry weight	wt fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19777	3.10E+00	1.00E+00	3.11E+00	3.11
1096	sludge	benzyl alcohol	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	butylbenzylphthalate	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	carbazole	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	chrysene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	di-n-octylphthalate	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	dibenz(a,h)anthracene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	dibenzofuran	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	diethylphthalate	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	dimeethylphthalate	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	nuoranthane	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	fluorene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	hexachlorobenzene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	hexachlorobutadiene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	hexachlorocyclopentadiene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	hexachloroethane	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	indeno(1,2,3-cd)pyrene	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	isophorone	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	N-nitroso-di-n-propylamine	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	N-nitrosodiphenylamine	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.061032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	nitrobenzene	Dry Weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	pentachlorophenol	Dry weight	wt fraction	9.03E-01	2.90E-02	9.32E-01	2.96E+01	4.96E+01	0.0384016472	0.01449952	0.38429	12.19177	3.10E+00	1.00E+00	3.11E+00	3.11
1996	sludge	pyrene	Dry weight	wt fraction	1.83E-01	1.83E-03	1.85E-01	5.96E+00	1.00E+01	0.079724052	0.00054815	0.019726	2.530552	3.09E+00	1.00E+00	3.09E+00	3.10
1996	sludge	pyridine	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29
1996	sludge	bis(2-chloroethoxy)methane	Dry weight	wt fraction	1.83E-01	2.90E-02	2.12E-01	6.72E+00	1.09E+01	0.079724052	0.01449952	0.081032	2.572094	3.09E+00	1.00E+00	3.29E+00	3.29

Table C-10. (continued).

Tank V-3

Part V-3			A	B	C	D	A	B	C	D	A	B	C	D			
Data Set	Matrix	Constituent	Reporting Basis	Unit	Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	standard error	standard error	standard error	standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
1996	sludge	bis(2-chloroethyl)ether	Dry weight	wt fraction	183E-01	290E-02	2 12E.01	6 72E+00	109E+01	0.079724052	0.01449952	0.081032	2 572094	3 09E+00	100E+00	3 29E+00	3 29
1996	sludge	bis(2-chloroisopropyl)ether	Dry weight	wl fraction	183E-01	290E-02	2 12E.01	6 72E+00	109E+01	0.079724052	0.01449952	0.081032	2 572094	3 09E+00	100E+00	3 29E+00	3 29
			In sludge	in liquid			Total Cl	Total nCl/g	90% UCL								
1996	sludge	Pu-238	Slurry	nCi/g	2.91E-02	110E-06	2.91E-02	9.22E-01	110E+00	0.033917448	9.73596E-08	0.003917	0.124491	7.30E+00	101E+02	7.30E+00	7.34
1996	sludge	Pu-239/240	Slurry	nCi/g	1.50E-02	5.71E-07	1.50E-02	4.76E-01	595E-01	0.002662345	6.85168E-08	0.002662	0.0W558	8.43E+00	100E+02	8.43E+00	8.46
1996	sludge	Am-241	Slurry	nCi/g	1.58E-02	9.22E-07	1.56E-02	4.95E-01	637E-01	0.0K3160875	9.17936E-08	0.003161	0.100374	7.51E+00	101E+02	7.51E+00	7.53
1996	sludge	Cm 242	Slurry	nCi/g	1.05E-04	1.80E-07	1.05E-04	3.32E-03	4.88E-03	3.32543E-05	8.9897E-08	3.33E 05	0.001056	5.27E+00	100E+00	5.27E+00	5.27
1996	sludge	On-2431244	Slurry	nCi/g	4.38E-03	183E-07	4.38E-03	1.36E-01	1.89E-01	0.001098131	9.134E-08	0.001098	0.034864	6.19E+00	100E+00	6.19E+00	6.20
1996	sludge	Np-237	Slurry	nCi/g	6.4E-05	1.06E-06	6.56E-05	2.08E-03	3.58E-03	3.07098E-05	5.27783E-07	3.07E-05	0.000975	4.53E+00	100E+00	4.53E+00	4.53
1996	sludge	U-233/234	Slurry	nCi/g	4.86E-03	3.86E-04	5.25E-03	1.67E-01	224E-01	0.001266297	1.30478E-05	0.001266	0.040207	6.00E+00	106E+02	6.01E+00	6.02
1996	sludge	U235	Slurry	nCi/g	1.59E-04	1.16E-05	170E.M	5.40E-03	7.17E-03	3.86921E-05	4.46092E-07	3.87E-05	0.001229	6.33E+00	105E+02	6.33E+00	6.34
1996	sludge	U-2%	Slurry	nCi/g	1.49E-04	3.91E-06	1.52E-04	4.84E-03	5.82E-03	2.20836E-05	1.74662E-07	2.21E-05	0.000702	8.51E+00	104E+02	8.51E+00	8.55
1996	sludge	Sr-90	Slurry	nCi/g	4.71E+01	3.57E-01	4.75E+01	1.51E+03	2.24E+03	1563203165	0.002208853	1563203	496.2169	5.15E+00	118E+02	5.15E+00	5.16
1996	sludge	Ag-108	Slurry	nCi/g	2.07E-03	179E-05	2.09E-03	6.62E-02	107E-01	0.000841556	1.29041E-05	0.000842	0.026715	4.74E+00	100E+00	4.74E+00	4.74
1996	sludge	Ag-110	Slurry	nCi/g	3.70E-03	3.42E-05	3.74E-03	1.19E-01	196E-01	0.01594853	2.10238E-05	0.001595	0.050626	4.65E+00	100E+00	4.65E+00	4.66
1996	sludge	Cs-144	Slurry	nCi/g	2.94E-02	175E-04	2.96E-02	9.38E-01	1.62E+00	0.013976756	0.00013194	0.013977	0.443451	4.53E+00	100E+00	4.53E+00	4.53
1996	sludge	Co-58	Slurry	nCi/g	3.67E-03	3.40E-05	3.70E-03	1.17E-01	1.86E-01	0.001409589	2.98676E-05	0.00141	0.044753	4.83E+00	100E+00	4.84E+00	4.84
1996	sludge	Co-60	Slurry	nCi/g	4.08E-01	2.80E-04	4.08E-01	1.30E+01	1.76E+01	0.102026973	0.000149634	0.102027	3.239238	6.20E+00	100E+00	6.20E+00	6.21
1996	sludge	Cs-134	Slurry	nCi/g	3.30E-03	170E-05	3.32E-03	1.05E-01	1.51E-01	0.00098296	4.01738E-06	0.000983	0.031205	5.48E+00	100E+00	5.48E+00	5.48
1996	sludge	Cs-137	Slurry	nCi/g	1.65E+00	6.39E-02	1.88E+01	5.28E+02	6.28E+02	2179014481	0.038714197	2.179358	69.26249	6.88E+00	100E+00	6.89E+00	6.92
1996	sludge	Eu-152	Slurry	nCi/g	3.98E-02	7.72E-05	3.99E-02	1.27E+00	1.77E+00	0.010637318	6.71296E-05	0.010638	0.0337713	5.89E+00	100E+00	5.89E+00	5.90
1996	sludge	Eu-154	Slurry	nCi/g	6.84E-02	2.53E-05	6.85E-02	2.17E+00	2.59E+00	0.009225557	2.21832E-05	0.009226	0.293177	7.30E+00	100E+00	7.30E+00	7.34
1996	sludge	Eu-155	Slurry	nCi/g	9.37E-03	6.07E-05	9.43E-03	2.99E-01	3.73E-01	0.01652081	4.3787E-05	0.001653	0.052491	8.47E+00	100E+00	8.48E+00	8.51
1996	sludge	Mn 54	Slurry	nCi/g	1.30E-03	1.24E-05	1.32E-03	4.18E-02	6.60E-02	0.0497782	1.08451E-05	0.000498	0.015804	4.85E+00	100E+00	4.85E+00	4.86
1996	sludge	Nb-95	Slurry	nCi/g	6.95E-03	3.68E-05	6.99E-03	2.22E-01	4.64E-01	0.0W978943	3.21874E-05	0.004979	0.158025	4.22E+00	100E+00	4.22E+00	4.23
1996	sludge	Re-226	Slurry	nCi/g	6.35E-03	2.25E-05	6.37E-03	2.02E-01	4.21E-01	0.004495192	1.76887E-05	0.004495	0.14267	4.23E+00	100E+00	4.23E+00	4.23
1996	sludge	Ru-103	slurry	nCi/g	3.55E-02	2.79E-04	3.58E-02	1.14E+00	1.86E+00	0.014877131	0.0001971787	0.014878	0.0472256	4.69E+00	100E+00	4.69E+00	4.70
1996	sludge	Ru-106	Slurry	nCi/g	2.90E-02	2.11E-04	2.92E-02	9.27E-01	1.48E+00	0.011444901	0.000152239	0.011446	0.0363311	4.79E+00	100E+00	4.79E+00	4.79
1996	sludge	Sb-125	Slurry	nCi/g	1.17E-02	9.42E-05	1.18E-02	3.74E-01	6.11E-01	0.0M874877	6.66954E-05	0.004875	0.154748	4.70E+00	100E+00	4.70E+00	4.70
1996	sludge	Zn-65	Slurry	nCi/g	3.24E-03	2.72E-05	3.26E-03	1ME-01	1.61E-01	0.001179896	2.37781E-05	0.00118	0.03746	4.94E+00	100E+00	4.94E+00	4.95
1996	sludge	Zr-95	Slurry	nCi/g	8.02E-03	6.60E-05	8.09E-03	2.57E-01	4.37E-01	0.003707978	5.79953E-05	0.003708	0.117706	4.56E+00	100E+00	4.56E+00	4.56
1996	sludge	I-129	slurry	nCi/g	1.53E-04	4.73E-06	1.58E-04	5.00E-03	8.06E-03	6.2641E-05	3.1608E-06	6.27E-05	0.001991	4.73E+00	100E+00	4.75E+00	4.75
1996	sludge	Ni 63	Slurry	nCi/g	2.08E+00	5.94E-03	2.08E+00	6.61E+01	9.98E+01	0.71761272	0.000430602	0.717613	2277918	5.06E+00	101E+02	5.06E+00	5.06

Table C-11 V-9 Tank Properties.

Tank V-9			A	B	C	D	A	B	C	D	A	B	C	D	
Constituent	Reporting Basis	Unit	Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
Al	Cry weight	wt fraction	3.58E+00	6.1E-05	3.58E+00	2.69E+03	4.17E+03	145195619	3.19126E 05	1451956	1118258	1.96E+01	1.08E+00	1.96E+01	2.15E+01
Ca	Dry weight	wt fraction	8.95E+00	2.40E-02	8.97E+00	6.74E+03	1.04E+04	3629890476	0.037608759	3.629888	2796 002	1.96E+01	1.23E+02	1.96E+01	2.15E+01
Cr	Dry weight	wt fraction	2.51E+00	3.87E-04	2.51E+00	1.88E+03	2.92E+03	1016369333	0.000122581	1016369	782.7854	1.96E+01	1.23E+02	1.96E+01	2.15E+01
Fe	Dry weight	wt fraction	1.94E+01	4.74E-03	1.94E+01	1.46E+04	2.26E+04	7.864762697	0.001502881	7.864763	6057 294	1.96E+01	1.23E+02	1.96E+01	2.15E+01
Mg	Cry weight	wt fraction	1.19E+01	5.51E-02	1.20E+01	9.01E+03	1.39E+04	4839853967	0.017483641	4.839885	3728 361	1.96E+01	1.23E+02	1.96E+01	2.15E+01
Mn	Dry weight	wt fraction	5.67E+00	6.23E-03	5.67E+00	4.26E+03	6.61E+03	2298930635	0.031973056	2.298931	1770666	1.96E+01	1.23E+02	1.96E+01	2.15E+01
S	Dry weight	wt fraction	9.40E+01	6.63E-03	9.40E+01	7.06E+04	1.09E+05	38.11384999	0.032098995	3811365	2935434	1.96E+01	1.23E+02	1.96E+01	2.15E+01
P	Dry weight	wt fraction	5.37E+01	1.60E-04	5.37E+01	4.04E+04	6.26E+04	21.77934285	5.07957E-05	21.77934	1677385	1.96E+01	1.23E+02	1.96E+01	2.15E+01
Sb	Slurry	wt fraction	1.52E-02	4.29E-05	1.53E-02	1.15E+01	3.16E+01	0.00857993	2.19061E 05	0.00858	6.532991	1.08E+00	1.08E+00	1.08E+00	1.14E+00
As	Slurry	wt fraction	3.99E-03	6.15E-05	4.06E-03	3.05E+00	7.92E+00	0.002070932	3.13717E-05	0.002071	1581205	1.10E+00	1.08E+00	1.10E+00	1.17E+00
Ba	Slurry	wt fraction	3.98E-01	2.70E-04	3.98E-01	2.99E+02	6.72E+02	0.156938596	8.5639E 05	0.156939	1210364	1.18E+00	1.23E+02	1.18E+00	1.30E+00
Be	Slurry	wt fraction	2.68E-02	1.72E-05	2.68E-02	2.02E+01	2.39E+01	0.003001801	5.45739E-06	0.003002	2.899153	6.79E+01	1.23E+02	6.79E+01	1.35E+02
Cd	Slurry	wt fraction	2.84E-02	5.04E-04	2.89E-02	2.18E+01	2.92E+01	0.005457469	0.030159524	0.00548	4.550695	2.21E+00	1.23E+02	2.21E+00	3.34E+00
Fluoride	Slurry	wt fraction	7.01E-03	3.82E-07	7.01E-03	5.27E+00	6.75E+00	0.001112584	1.20902E 07	0.001173	1.00177	3.07E+00	1.23E+02	3.07E+00	5.10E+00
Pb	Slurry	wt fraction	6.03E-01	2.5E-1M	6.03E-01	4.53E+02	5.41E+02	0.071811694	7.90901E 05	0.071812	67.76005	3.07E+01	1.23E+02	3.07E+01	6.74E+01
Hg	Slurry	wt fraction	2.22E+00	1.49E-04	2.22E+00	1.67E+03	1.97E+03	0.0245574195	4.72694E-05	0.245574	238.1475	7.06E+01	1.23E+02	7.06E+01	1.39E+02
Ni	slurry	wt fraction	4.20E-01	3.68E-03	4.24E-01	3.19E+02	3.96E+02	0.063195959	0.031158645	0.063207	55.55238	4.52E+00	1.23E+02	4.52E+00	8.38E+00
Se	Slurry	wt fraction	4.42E-03	6.78E-05	4.49E-03	3.37E+00	8.75E+00	0.02289056	3.46171E-05	0.002289	1747809	1.10E+00	1.08E+00	1.10E+00	1.17E+00
Ag	slurry	wt fraction	6.94E-01	8.35E-06	6.94E-01	5.22E+02	6.17E+02	0.076489707	4.25952E-06	0.07649	74.34127	7.03E+01	1.08E+00	7.03E+01	1.39E+02
Sulfate	Slurry	wt fraction	4.78E-02	7.69E-05	4.79E-02	3.60E+01	4.26E+01	0.005273265	2.43483E-05	0.005273	5.12778	7.04E+01	1.23E+02	7.04E+01	1.39E+02
Tl	Slurry	wt fraction	7.30E-03	9.81E-05	7.39E-03	5.56E+00	7.24E+00	0.0012-1125	5.00325E-05	0.001292	1093432	2.64E+00	1.08E+00	2.64E+00	4.23E+00
V	Slurry	wt fraction	6.50E-03	5.83E-06	6.50E-03	4.89E+00	6.17E+00	0.010132431	2.97491E-06	0.001032	0.892949	3.63E+00	1.08E+00	3.63E+00	6.33E+00
Zn	Slurry	wt fraction	1.88E+00	4.82E-03	1.87E+00	1.40E+03	1.67E+03	0.029210211	0.031526069	0.029246	202.1029	6.71E+01	1.23E+02	6.71E+01	1.34E+02
Chloride	slurry	wt fraction	5.25E-01	2.89E-03	5.28E-01	3.97E+02	4.70E+02	0.058685708	0 (a0915162	0.058693	56.85181	6.89E+01	1.23E+02	6.90E+01	1.37E+02
Na	Slurry	wt fraction	1.72E+00	8.35E-01	2.56E+00	1.92E+03	2.51E+03	0.403827036	0.264473407	0.482724	402.2278	1.64E+00	1.23E+02	3.34E+00	5.02E+00
K	Slurry	wt fraction	9.14E-00	2.21E+00	1.14E+01	8.54E+03	1.15E-04	2.0849928	0.700224831	2.199434	1824.358	1.69E+00	1.23E+02	2.10E+00	3.11E+00
B	Slurry	wt fraction	4.79E-02	9.96E-03	5.78E-02	4.35E+01	5.17E+01	0.005826955	0.033156889	0.006627	6.343913	2.29E+01	1.23E+02	3.78E+01	8.35E+01
Co	Slurry	wt fraction	5.33E-03	3.07E-05	5.36E-03	4.03E+00	5.43E+00	0.001033804	9.73934E-06	0.001034	0.858101	2.16E+00	1.23E+02	2.16E+00	3.20E+00
Cu	Slurry	wt fraction	4.1ME-01	7.90E-04	4.05E-01	3.04E+02	3.96E+02	0.070589612	0.0002502	0.07059	59.7693	2.72E+00	1.23E+02	2.72E+00	4.37E+00
Sn	Slurry	wt fraction	3.38E-02	3.07E-05	3.36E-02	2.52E+01	3.03E+01	0 OM206311	1.55859E-05	0.004206	3.898563	1.61E+01	1.08E+00	1.61E+01	3.52E+01
Bromide	Slurry	wt fraction	1.31E-02	1.57E-05	1.31E-02	9.86E+00	1.17E+01	0.001439846	4.97042E-06	0.00144	1401736	6.97E+01	1.23E+02	6.97E+01	1.39E+02
Nitrate	slurry	wt fraction	3.79E-02	1.67E-05	3.79E-02	2.85E+01	3.39E+01	0.0044326949	5.30626E-06	0.004329	4.150361	5.65E+01	1.23E+02	5.65E+01	1.16E+02
Nitrite	Slurry	wt fraction	3.81E-03	2 ME-05	3.84E-03	2.89E+00	1.17E+01	0.003783423	1.50097E 05	0.003783	2.856224	1.02E+00	1.08E+00	1.03E+00	1.04E+00
Phosphate	slurry	wt fraction	1.01E-03	6.36E-07	1.01E-03	7.57E 01	1.02E+00	0.000189982	2.01504E 07	0.00019	0 158351	2.28E+00	1.23E+02	2.28E+00	3.44E+00
Aroclor-1260	Dry weight	wt fraction	1.28E-01	9.54E-06	128E.01	9.59E+01	138E+02	0.036512035	3.02255E-06	0.036572	28.82458	4.95E+00	1.23E+02	4.95E+00	5.99E+00
TCE	Slurry	wt fraction	1.92E+01	1.09E-01	1.93E+01	1.45E+04	2.62E+04	4753326814	0.034423523	4.753451	3805.755	1.55E+00	1.23E+02	1.55E+00	1.99E+00
PCE	Slurry	wt fraction	5.65E-01	4.51E-03	5.69E-01	4.28E+02	5.54E+02	0.09698877	0.03229879	0.097027	8254254	2.84E+00	1.08E+00	2.85E+00	4.66E+00
chloromahane	Slurry	wt fraction	7.40E-02	9.81E-04	7.50E-02	5.64E+01	7.54E+01	0.013830553	0.030500325	0.01384	115838	2.33E+00	1.08E+02	2.33E+00	3.58E+00
bromomethane	Slurry	wt fraction	1.39E-01	2.07E-03	1.41E-01	1.08E+02	1.28E+02	0.018575475	0.001054739	0.018605	1693181	8.73E+00	1.08E+00	8.78E+00	1.84E+01
TCA	Slurry	wt fraction	2.34E+00	1.54E-02	2.36E+00	1.77E+03	2.54E+03	0.0497861699	0.004869669	0.0497886	407.1174	1.86E+00	1.24E+00	1.86E+00	2.60E+00
vinyl chloride	Slurry	wt fraction	1.28E-01	3.45E-03	1.31E 01	9.87E+01	2.53E+02	0.065437291	0.031757899	0.065461	50012	1.10E+00	1.08E+00	1.10E+00	1.17E+00
chloroethane	Slurry	wt fraction	2.66E-01	4.51E-03	2.71E-01	2.04E+02	5.24E+02	0.13632769	0.03229879	0.136347	104.1374	1.10E+00	1.08E+00	1.10E+00	1.17E+00
methylene chlonde	Slurry	wt fraction	2.66E-01	1.56E-02	2.82E-01	2.12E+02	5.33E+02	0.13632769	0 OM953629	0.136418	104.3257	1.10E+00	1.23E+02	1.10E+00	1.18E+00

Table C-11. (continued).

Tank V-8															
Constituent	Reporting Basis	unit	A	B	C	D	A	B	C	D	A	B	C	D	
			Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
acetone	Slurry	wt fraction	1.49E+00	2.92E-02	152E+00	114E+03	2.94E+03	0.76343505	0.014874526	0.76358	583 2436	1.10E+00	1.08E+00	1.10E+00	1.17E+00
carbon disulfide	Slurry	wt fraction	1.28E-01	3.45E-03	1.31E-01	9.87E+01	2.53E+02	0.065437291	0.001757899	0.065461	50012	1.10E+00	1.08E+00	1.10E+00	1.17E+00
1,1-dichloroethylene	Slurry	wt fraction	1.28E-01	2.92E-03	1.31E-01	9.83E+01	2.52E+02	0.065437291	0.031467453	0.065454	50 MCM	1.10E+00	1.08E+00	1.10E+00	1.17E+00
1,1-dichloroethane	Slurry	wt fraction	5.33E-02	1.01E-03	5.43E-02	4.08E+01	1.05E+02	0.027265538	0.030513847	0.02727	20 82947	1.10E+00	1.08E+00	1.10E+00	1.17E+00
bans 1,2-dichloroethylene	Slurry	wt fraction	9.37E-02	2.29E-03	9.60E-02	7.22E+01	1.85E+02	0.047987347	0.001149395	0.048001	36 66953	1.10E+00	1.08E+00	1.10E+00	1.17E+00
chloroform	slurry	wt fraction	1 BE-01	2.65E-03	1.30E-01	9.81E+01	2.52E+02	0.065437291	0.00135223	0.065451	49 99528	1.10E+00	1.08E+00	1.10E+00	1.17E+00
1,2-dichloroethane	Slurry	wt fraction	2.65E-01	6.63E-03	2.73E-01	2.05E+02	5.26E+02	0.13632769	0.033360574	0.13637	104 1796	1.10E+00	1.08E+00	1.10E+00	1.17E+00
2-butanone	Slurry	wt fraction	7.99E-01	1.48E-02	8.14E-01	6.12E+02	1.57E+03	0.40898307	0.037572486	0.409053	312437	1.10E+00	1.08E+00	1.10E+00	1.17E+00
carbon tetrachloride	slurry	wt fraction	1 BE-01	2.92E-03	1.31E-01	9.83E+01	2.52E+02	0.065437291	0.031487453	0.065454	50 MCM	1.10E+00	1.08E+00	1.10E+00	1.17E+00
bromodichloromethane	Slurry	wt fraction	1.28E-01	3.18E-03	1.31E-01	9.85E+01	2.52E+02	0.065437291	0.001622678	0.065457	50 00621	1.10E+00	1.08E+00	1.10E+00	1.17E+00
1,2-dichloropropane	Slurry	wt fraction	2.66E-01	4.77E-03	2.71E-01	2.04E+02	5.24E+02	0.032434013	0.136349	104 1423	1.10E+00	1.08E+00	1.10E+00	1.17E+00	
cis-1,3-dichloropropylene	Slurry	wt fraction	1 BE-01	3.71E-03	1.32E-01	9.89E+01	2.53E+02	0.065437291	0.031893121	0.065465	50018	1.10E+00	1.08E+00	1.10E+00	1.17E+00
dbromochloromethane	slurry	wt fraction	1.28E-01	3.98E-03	1.32E-01	9.91E+01	2.53E+02	0.065437291	0.02028344	0.065469	50 02421	1.10E+00	1.08E+00	1.10E+00	1.18E+00
1,1,2-trichloroethane	Slurry	wt fraction	1 BE-01	2.69E-03	1.30E-01	9.81E+01	2.52E+02	0.065437291	0.03135223	0.065451	49 99528	1.10E+00	1.08E+00	1.10E+00	1.17E+00
benzene	slurry	wt fraction	2.66E-01	4.51E-03	2.71E-01	2.04E+02	5.24E+02	0.13632769	0.0229879	0.136347	104 1374	1.10E+00	1.08E+00	1.10E+00	1.17E+00
bans 1,3-dichloropropylene	slurry	wl fraction	2.66E-01	1.99E-03	2.68E-01	2.02E+02	5.22E+02	0.13632769	0.001014172	0.136331	104 0958	1.10E+00	1.08E+00	1.10E+00	1.17E+00
bromoform	Slurry	wt fraction	5.33E-01	1.14E-02	5.44E-01	4.09E+02	1.05E+03	0.27265538	0.005814587	0.272717	208 3207	1.10E+00	1.08E+00	1.10E+00	1.17E+00
4-methyl-2-pentanone	Slurry	wt fraction	1.28E-01	3.71E-03	1.32E-01	9.89E+01	2.53E+02	0.065437291	0.001893121	0.065465	50018	1.10E+00	1.08E+00	1.10E+00	1.17E+00
2-hexanone	Slurry	wt fraction	5.33E-01	1.01E-02	5.43E-01	4.08E+02	1.05E+03	0.27265538	0.005138473	0.272704	208 2947	1.10E+00	1.08E+00	1.10E+00	1.17E+00
1,1,2,2-tetrachloroethane	Slurry	wt fraction	1.28E-01	2.92E-03	1.31E-01	9.83E+01	2.52E+02	0.065437291	0.01487453	0.065454	50 00064	1.10E+00	1.08E+00	1.10E+00	1.17E+00
toluene	Slurry	wt fraction	2.66E-01	3.98E-03	2.70E-01	2.03E+02	5.24E+02	0.13632769	0.002028344	0.136343	104 1279	1.10E+00	1.08E+00	1.10E+00	1.17E+00
chlorobenzene	Slurry	wt fraction	1 BE-01	2.69E-03	1.30E-01	9.81E+01	2.52E+02	0.065437291	0.00135223	0.065451	49 99528	1.10E+00	1.08E+00	1.10E+00	1.17E+00
ethylbenzene	Slurry	wt fraction	1.28E-01	2.92E-03	1.31E-01	9.83E+01	2.52E+02	0.065437291	0.01487453	0.065454	50 00064	1.10E+00	1.08E+00	1.10E+00	1.17E+00
styrene	Slurry	wt fraction	2.66E-01	4.51E-03	2.71E-01	2.04E+02	5.24E+02	0.13632769	0.03229879	0.136347	104 1374	1.10E+00	1.08E+00	1.10E+00	1.17E+00
cis-1,2-dichloroethylene	Slurry	wl fraction	1.17E-01	4.51E-03	1.22E-01	9.15E+01	2.33E+02	0.059984184	0.03229879	0.060026	45 87728	1.10E+00	1.08E+00	1.10E+00	1.18E+00
xylene	Slurry	wt fraction	1.28E-01	3.71E-03	1.32E-01	9.89E+01	2.53E+02	0.065437291	0.031893121	0.065465	50018	1.10E+00	1.08E+00	1.10E+00	1.17E+00
2-methylnaphthalene	Dry weight	wt fraction	4.70E-02	3.71E-06	4.70E-02	3.53E+01	5.05E+01	0.01302192	1.89312E 06	0.013022	10 25599	4.51E+00	4.51E+00	4.51E+00	5.51E+00
1,2-dichlorobenzene	Cry weight	wt fraction	1.41E-01	5.57E-05	1.41E-01	1.06E-02	1.53E-02	0.04154858	0.178316E 05	0.041549	32 66866	5.19E+00	5.19E+00	5.19E+00	6.20E+00
naphthalene	Cry weight	wt fraction	1.83E-02	2.12E-06	1.83E-02	1.38E+01	1.98E+01	0.005185856	10 8178E 06	0.005186	4 09269	4.79E+00	4.79E+00	4.79E+00	5.82E+00
bis(2-ethylhexyl)phthalate	Dry weight	wt fraction	4.59E-01	1.01E-05	4.59E-01	3.45E+02	4.96E+02	0.129646402	3 19047E 06	0.129646	102 3164	4.79E+00	4.79E+00	4.79E+00	5.82E+00
1,2,4-trichlorobenzene	B y weight	wt fraction	1.30E-02	1 BE-06	1.30E-02	9.75E+00	1.40E+01	0.003788759	9.45651E 07	0.003789	2 98141	5.13E+00	5.13E+00	5.13E+00	6.15E+00
1,3-dichlorobenzene	Cry weight	wt fraction	6.49E-03	1.59E-06	6.49E-03	4.88E+00	7.02E+00	0.001894379	8.11338E 07	0.0018%	1.490718	5.13E+00	5.13E+00	5.13E+00	6.15E+00
1,4-dichlorobenzene	Cry weight	wt fraction	3.65E-02	1 %E-05	3.65E-02	2.74E+01	3.95E+01	0.010658688	4 11403E 06	0.010659	8 386823	5.13E+00	5.13E+00	5.13E+00	6.16E+00
2,4-dimethylphenol	Dry weight	wt fraction	1.19E-01	2.09E-05	1.19E-01	8.91E+01	1.27E+02	0.032453501	6.63283E 06	0.032454	25 69152	4.30E+00	4.30E+00	4.30E+00	5.29E+00
2-methylphenol	Cry weight	wt fraction	2.21E-01	2.20E-04	2.22E-01	1.67E+02	2.37E+02	0.060517873	6.96866E 05	0.060518	47 92031	4.28E+00	4.28E+00	4.28E+00	5.26E+00
4-methylphenol	Dry weight	wt fraction	1.16E-01	2.20E-04	1.17E-01	8.78E+01	1.25E+02	0.031765444	6.96866E 05	0.031766	25 15703	4.26E+00	4.26E+00	4.26E+00	5.25E+00
d-n-butylphthalate	Dry weight	radon	6 BE-03	7 %E-07	6.26E-03	4.71E+00	6.77E+00	0.00176987	4.05669E 07	0.001768	1395506	4.77E+00	4.77E+00	4.77E+00	5.80E+00
phenanthrene	Dry weight	wt fracion	8 !E-03	1.59E-06	8.95E-03	6.73E+00	9.63E+00	0.002484114	8.11338E 07	0.002484	1963839	4.53E+00	4.53E+00	4.53E+00	5.54E+00
phenol	Dry weight	wt fraction	3.11E-02	2.65E-05	3.11E-02	2.34E+01	3.33E+01	0.008517624	8.39598E 06	0.008518	6 742865	4.32E+00	4.32E+00	4.32E+00	5.31E+00
Total Carbon	Slurry	wt fraction	1.22E+01	8.22E-04	1.22E+01	9.19E+03	1.62E+04	7 013641436	0.000419191	7013641	537 545	3.42E+01	3.42E+01	3.42E+01	3.59E+01
2,4,5-trichlorophenol	Dry weight	wl fracion	3.22E-01	4.51E-06	3.22E-01	2.42E+02	6.95E+02	0.193404661	2.29879E 06	0.193405	147 0313	1.56E+00	1.56E+00	1.56E+00	1.64E+00
2,4,6-trichlorophenol	Dry weight	wt fraction	6 BE-02	2.65E-06	6.26E-02	4.71E+01	1.35E+02	0.03766181	1.35223E 06	0.037662	28 63057	1.56E+00	1.56E+00	1.56E+00	1.63E+00
2,4-dichlorophenol	B y weight	wt fraction	6.28E-02	2.12E-06	6.28E-02	4.71E+01	1.35E+02	0.03766181	1.08178E 06	0.037662	28 63057	1.56E+00	1.56E+00	1.56E+00	1.63E+00
2,4-dinitrophenol	Dry weight	wt fraction	3.22E-01	7.16E-06	3.22E-01	2.42E+02	6.95E+02	0.193404661	3.65102E 06	0.193405	147 0313	1.56E+00	1.56E+00	1.56E+00	1.64E+00
2,4-dinitrotoluene	Cay weight	wt fraction	6 BE-02	2.65E-06	6.26E-02	4.71E+01	1.35E+02	0.03766181	1.35223E 06	0.037662	28 63057	1.56E+00	1.56E+00	1.56E+00	1.63E+00
2,6-dinitrotoluene	Cay weight	wt fraction	6 BE-02	2.12E-06	6.26E-02	4.71E+01	1.35E+02	0.03766181	1.08178E 06	0.037662	28 63057	1.56E+00	1.56E+00	1.56E+00	1.63E+00

Table C-11. (continued).

Tank V-9			A	B	C	D	A	B	C	D	A	B	C	D	
Constituent	Reponing Basis	Unit	Kg in Sludge	Kg in Liquid	Total Kg	Total mg/Kg	90% UCL	Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
2-chloronaphthalene	Dry weight	wtfraction	6 BE-02	2.65E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.35223E-06	0.037662	2863057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
2-chlorophenol	Cry weight	wtfraction	6 BE-02	1.59E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	8 11338E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
2-nitroaniline	Cry weight	wtfraction	3 22E-01	1.59E-06	3 22E-01	242E+02	6 95E+02	0.193404661	8 11338E-07	0.193405	1470312	1.56E+00	1.08E+00	1.56E+00	1.64E+00
2-nitrophenol	Dry weight	wt fraction	6 BE-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766161	9.46561E-07	0.037662	26 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
33' dichlorobenzidine	Cry weight	wt fraction	6 BE-02	1.75E-05	6 27E-02	4 71E+01	1.35E+02	0.03766181	8 92472E-06	0.037662	28 63072	1.56E+00	1.08E+00	1.56E+00	1.63E+00
3-nitroaniline	Cry weight	wt fraction	3 22E-01	4 51E-06	3 22E-01	242E+02	6 95E+02	0.193404661	2.29879E-06	0.193405	1470313	1.56E+00	1.08E+00	1.56E+00	1.64E+00
4,6-dinitro 2-methylphenol	D y weight	wt fraction	3 22E-01	5 04E-05	3 22E-01	242E+02	6 95E+02	0.193404661	1.59524E-05	0.193405	1470317	1.56E+00	1.23E+02	1.56E+00	1.64E+00
4-bromophenyl-phenyl ether	Dry weight	wt fraction	6 26E-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766161	9.46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
4-chloro-3-methylphenol	Cry weight	wt fraction	6 BE-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
4-chloroaniline	Cry weight	wt fraction	6 BE-02	7 18E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	3.65102E-06	0.037662	28 63062	1.56E+00	1.08E+00	1.56E+00	1.63E+00
4-chlorophenyl-phenyl ether	Cry weight	varfraction	6 BE-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	9.46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
4-nitroaniline	Cry weight	wt fraction	3 22E-01	1 06E-06	3 22E-01	242E+02	6 95E+02	0.193404661	5 40892E-07	0.193405	1470312	1.56E+00	1.08E+00	1.56E+00	1.64E+00
4-nitrophenol	Dry weight	wt fraction	3 22E-01	9 81E-06	3 22E-01	242E+02	E 95E+02	0.193404661	3 10651E-06	0.193405	1470313	1.56E+00	1.23E+02	1.56E+00	1.64E+00
acenaphthene	Dry weight	wt fraction	6 BE-02	1.59E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	8 11338E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
acenaphthylene	Cry weight	wt fraction	6 26E-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	9 46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
anthracene	Cry weight	wt fraction	6 BE-02	1.33E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	6 76115E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
benzo(a)anthracene	Dry weight	wt fraction	6 BE-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
benzo(a)pyrene	Dry weight	wt fraction	6 BE-02	2.65E-07	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.35223E-07	0.037662	28 63055	1.56E+00	1.08E+00	1.56E+00	1.63E+00
benzo(b)fluoranthene	Dry weight	wt fraction	6 26E-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	9 46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
benzo(g,h)perylene	Dry weight	wt fraction	6 BE-02	7 95E-07	6 26E-02	4 71E+01	1.35E+02	0.03766181	4.05669E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
benzo(k)fluoranthene	Cry weight	wt fraction	6 26E-02	1.59E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	8 11338E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
benzoic acid	Cry weight	wt fraction	3 22E-01	1.33E-03	3 23E-01	243E+02	6 96E+02	0.193404661	0.000676115	0.193406	1470455	1.56E+00	1.08E+00	1.56E+00	1.64E+00
benzyl alcohol	Dry weight	wt fraction	6 BE-02	2.65E-04	6 29E-02	4 73E+01	1.35E+02	0.03766181	0.030135223	0.037662	28 63341	1.56E+00	1.08E+00	1.56E+00	1.63E+00
butylbenzylphthalate	Cry weight	wt fraction	6 BE-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
carbozole	Cry weight	wt fraction	6 BE-02	2.65E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.35223E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
chrysene	Cry weight	wt fraction	6 BE-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
din-octylphthalate	Cry weight	wt fraction	6 28E-02	1.59E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	5 03759E-07	0.037662	28 63056	1.56E+00	1.23E+02	1.56E+00	1.63E+00
dibenz(a,h)anthracene	Dry weight	wtfraction	6 BE-02	1.33E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	6 76115E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
dibenzofuran	Cry weight	wt fraction	6 BE-02	1.06E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	5 40892E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
diethylphthalate	Cry weight	wt fraction	6 26E-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
dimethylphthalate	Cry weight	wt fraction	6 BE-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	9 46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
fluoranthene	Cry weight	wt fraction	6 BE-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
fluorene	Dry weight	wt fraction	6 26E-02	1.33E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	6 76115E-07	0.037662	28 63056	1.56E+00	1.08E+00	1.56E+00	1.63E+00
hexachlorobenzene	Cry weight	wt fraction	6 26E-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	9 46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
hexachlorobutadiene	Dry weight	wt fraction	6 BE-02	2.65E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.35223E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
hexachlorocyclopentadiene	Dry weight	wifraction	6 26E-02	3.45E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.7579E-06	0.037662	28 63058	1.56E+00	1.08E+00	1.56E+00	1.63E+00
hexachloroethane	Dry weight	wt fraction	6 BE-02	2.12E-05	6 27E-02	4 71E+01	1.35E+02	0.03766161	1.08178E-05	0.037662	28 63076	1.56E+00	1.08E+00	1.56E+00	1.63E+00
indeno(1,2,3-cd)pyrene	Dry weight	wt fraction	6 BE-02	9 54E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	4.86803E-06	0.037662	28 63064	1.56E+00	1.08E+00	1.56E+00	1.63E+00
isophorone	Dry weight	wt fraction	6 BE-02	1.86E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	9 46561E-07	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
N-nitroso-di-n-propylamine	Dry weight	wt fraction	6 26E-02	3.45E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.7579E-06	0.037662	28 63058	1.56E+00	1.08E+00	1.56E+00	1.63E+00
N-nitrosodiphenylamine	Dry weight	wt fraction	6 BE-02	2.92E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.48745E-06	0.037662	28 63058	1.56E+00	1.08E+00	1.56E+00	1.63E+00
nitrobenzene	Dry weight	wt fraction	6 BE-02	2.39E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.21701E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
pentachlorophenol	Cry weight	wt fraction	3 22E-01	3.45E-06	3 22E-01	242E+02	6 95E+02	0.193404661	1.7579E-06	0.193405	1470312	1.56E+00	1.08E+00	1.56E+00	1.64E+00
pyrene	Dry weight	wt fraction	6 BE-02	3.18E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.62268E-06	0.037662	28 63058	1.56E+00	1.08E+00	1.56E+00	1.63E+00
pyridine	Cry weight	wt fraction	6 BE-02	2.65E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.35223E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00
bis(2-chloroethoxy)methane	Cry weight	wt fraction	6 BE-02	2.12E-06	6 26E-02	4 71E+01	1.35E+02	0.03766181	1.08178E-06	0.037662	28 63057	1.56E+00	1.08E+00	1.56E+00	1.63E+00

Table C-11. (continued).

Tank V-8			A	B	C	D	A	B	C	D	A	B	C	D	
Constituent	Reporting Basis	Unit	Kg In Sludge	Kg In Liquid	Total Kg	Total mg/Kg	90% UCL	Standard error	Standard error	Standard error	Standard error	Degree of Freedom	Degree of Freedom	Degree of Freedom	Degree of Freedom
bis(2 chloroethyl)ether	Dry weight	wt fraction	6.26E 02	1.86E 06	6.26E 02	4.71E+01	1.35E+02	0.03766181	9.46561E-07	0.037662	28.63057	156E+00	1.08E+00	1.56E+00	1.63E+00
bis(2-chloroisopropyl)ether	Dry weight	wt fraction	6.26E 02	1.59E 06	6.26E 02	4.71E+01	1.35E+02	0.03766181	8.11338E-07	0.037662	28.63056	156E+00	1.08E+00	1.56E+00	1.63E+00
		G in sludge		Cl in liquid	Total Cl	Total nCi/g	90% UCL								
h-238	Slurry	nCi/g	2.14E 02	4.51E 05	2.14E 02	1.61E+01	3.83E+01	0.009404995	5.72313E-06	0.009405	7.218159	1.14E+00	1.85E+02	1.14E+00	1.24E+00
Pu 2391240	Slurry	nCi/g	7.75E 03	1.20E-05	7.77E 03	5.84E+00	6.91E+00	0.000858833	1.56594E-06	0.000859	0.833616	7.07E+01	1.91E+02	7.07E+01	1.40E+02
Am-241	slurry	nCi/g	5.33E 03	1.07E 05	5.34E-03	4.01E+00	5.24E+00	0.000947921	1.27151E-06	0.000948	0.799442	2.60E+00	1.65E+02	2.60E+00	4.11E+00
Cm-242	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cm-243/244	Slurry	nCi/g	6.16E 04	1.38E-08	6.18E 04	4.1E-01	6.91E 01	0.000149856	1.74337E-07	0.00015	0.120208	1.58E+00	1.84E+02	1.58E+00	2.04E+00
Np-237	slurry		3.20E-05	5.30E 08	3.20E 05	2.41E-02	2.99E-02	4.74812E-06	1.09623E-08	4.75E-06	0.0M179	4.77E+00	1.58E+02	4.77E+00	8.89E+00
U-233/234	Slurry	nCi/g	1.14E-02	5.91E 05	1.15E 02	8.62E+00	1.62E+01	0.003127651	1.8723E-05	0.003128	2.476862	1.42E+00	1.23E+02	1.42E+00	1.75E+00
u n 5	slurry	nCi/g	3.75E 14	1.83E-06	3.77E 04	2.84E+01	5.54E+01	0.000111754	5.79323E-07	0.000112	0.087833	1.34E+00	1.23E+02	1.34E+00	1.60E+00
U238	Slurry	nCi/g	8.55E 05	2.57E 07	8.57E 05	6.45E 02	7.65E 02	9.69503E 06	8.1441E 08	9.7E 06	0.009328	6.10E+01	1.23E+02	6.10E+01	1.24E+02
Sr-90	Slurry	nCi/g	6.82E+00	6.63E 02	6.89E+00	5.18E+03	6.44E+03	1031468634	0.009457966	1031512	905.5896	4.42E+00	2.00E+02	4.42E+00	8.15E+00
Ag-108	slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ag-110	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ce-144	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Co-58	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Co-60	slurry	nCi/g	1.00E+00	3.13E-07	1.00E00	7.55E+02	1.38E+03	0256153733	3.55384E-08	0.256154	204.2682	1.51E+00	1.46E+02	1.51E+00	1.91E+00
cs-134	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cs 137	Slurry	nCi/g	5.95E+00	1.11E-04	5.95E+00	4.48E+03	5.84E+03	1057598859	1.21254E-05	1057599	891.953	2.61E+00	1.28E+02	2.61E+00	4.13E+00
Eu-152	slurry	nCi/g	0.00E+00	1.51E 07	1.51E 07	1.14E-04	#DIV/0!	0	1.8248E-08	1.82E 08	1.71E 05	#DIV/0!	1.70E+02	#DIV/0!	#DIV/0!
Eu 154	Slurry	nCi/g	2.36E 02	7.16E-08	2.36E 02	1.78E+01	4.62E+01	0.012105899	9.46836E-09	0.012106	9.241374	1.10E+00	1.93E+02	1.10E+00	1.17E+00
Eu-155	slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mn-54	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Nb95	slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Re-226	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ru-103	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ru-106	slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Sb-125	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Zn-65	slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Zr-95	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
I-129	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ni 63	Slurry	nCi/g	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Table C-12. All Tanks.

Data Set	Matrix	Constituent	mg/kg	Standard Error	90% UCL	95% UCL	Degree of Freedom
1980	sludge	Al	4 83E+02	8 24E+01	5 89E+02	6 19E+02	2 39E+02
1980	sludge	Ca	1.23E+03	2 00E+02	1.49E+03	1.56E+03	2 44E+02
1980	sludge	Cr	2 98E+02	5 75E+01	3 72E+02	3 93E+02	1.59E+02
1980	sludge	Fe	2 67E+03	4 65E+02	3 27E+03	3 44E+03	2 24E+02
1980	sludge	Mg	1.62E+03	2 75E+02	1.97E+03	2 08E+03	2 23E+02
1980	sludge	Mn	7 49E+02	1.31E+02	9 18E+02	9 66E+02	2 10E+02
1980	sludge	Si	1.23E+04	2 03E+03	1.49E+04	1.57E+04	2 55E+02
1980	sludge	P	7 26E+03	1.23E+03	8 85E+03	9 30E+03	2 33E+02
1996	sludge	Sb	9 02E-01	1 98E-01	1.51E+00	2 15E+00	1.30E+00
1996	sludge	As	3 59E-01	6 31E-02	4 62E-01	5 08E-01	3 25E+00
1996	sludge	Ba	1.24E+01	3 52E+00	2 32E+01	3 46E+01	1.25E+00
1996	sludge	Be	1.11E+00	1 66E-01	1.36E+00	1.46E+00	4 57E+00
1996	sludge	Cd	2 34E+00	3 01E-01	2 76E+00	2 90E+00	8 08E+00
1996	sludge	Fluoride	4 85E+00	1 64E+00	9 90E+00	1.52E+01	1.10E+00
1996	sludge	Pb	3 61E+01	3 67E+00	4 14E+01	4 33E+01	6 78E+00
1996	sludge	Hg	7 92E+01	6 08E+00	8 71E+01	8 93E+01	8 94E+01
1996	sludge	Ni	1.64E+01	1 74E+00	1.88E+01	1.96E+01	9 51E+00
1996	sludge	Se	3 21E-01	7 99E-02	4 44E-01	4 92E-01	4 98E+00
1996	sludge	Ag	1.84E+01	1.91E+00	2 09E+01	2 16E+01	5 41E+01
1996	sludge	Sulfate	4 64E+01	1.46E+01	6 75E+01	7 49E+01	6 35E+00
1996	sludge	Tl	2 16E+00	6 04E-01	3 09E+00	3 45E+00	4 73E+00
1996	sludge	V	3 04E-01	3 63E-02	3 54E-01	3 71E-01	9 29E+00
1996	sludge	Zn	2 06E+02	3 34E+01	2 54E+02	2 70E+02	6 91E+00
1996	sludge	Chloride	1.06E+02	1.54E+01	1.26E+02	1.32E+02	1.09E+02
1996	sludge	Na	2 92E+02	1.52E+01	3 13E+02	3 20E+02	8 53E+00
1996	sludge	K	3 56E+02	5 01E+01	4 50E+02	5 02E+02	2 38E+00
1996	sludge	B	1.26E+01	5 63E-01	1.34E+01	1.37E+01	5 75E+00
1996	sludge	co	3 01E-01	3 25E-02	3 47E-01	3 62E-01	7 24E+00
1996	sludge	Cu	1.88E+01	2 39E+00	2 22E+01	2 34E+01	6 31E+00
1996	sludge	Sn	1.86E+00	1 84E-01	2 43E+00	3 02E+00	
1996	sludge	Bromide	2 96E+00	3 91E-01	3 46E+00	3 61E+00	8 41E+01
1996	sludge	Nitrate	1.55E+00	1 75E-01	1.80E+00	1.90E+00	5 44E+00
1996	sludge	Nitrite	3 84E+00	1.31E+00	7 89E+00	1.21E+01	1 11E+00
1996	sludge	Phosphate	4 82E+00	5 32E-01	5 50E+00	5 70E+00	1.07E+02
1996	sludge	Aroclor-1260	1.80E+01	1.83E+00	2 04E+01	2 12E+01	1.42E+01
1993	sludge	TCE	4 26E+02	1.05E+02	7 49E+02	1.09E+03	1.55E+00
1993	sludge	PCE	1.18E+02	1.84E+01	1.75E+02	2 35E+02	1.19E+00
1993	sludge	chloromethane	1.79E+00	3 10E-01	2 38E+00	2 70E+00	2 49E+00
1993	sludge	bromomethane	3 24E+00	4 15E-01	3 81E+00	4 00E+00	9 15E+00
1993	sludge	TCA	5 22E+01	1.10E+01	8 60E+01	1.22E+02	1.87E+00
1993	sludge	vinyl chloride	3 03E+00	1.45E+00	7 48E+00	1.22E+01	1.10E+00
1993	sludge	chloroethane	6 11E+00	3 01E+00	1.54E+01	2 51E+01	1.10E+00
1993	sludge	methylene chloride	6 36E+00	3 01E+00	1.56E+01	2 54E+01	1.10E+00
1993	sludge	acetone	3 37E+01	1.69E+01	8 55E+01	1.40E+02	1.10E+00
1993	sludge	carbon disulfide	3 03E+00	1.45E+00	7 48E+00	1.22E+01	1.10E+00
1993	sludge	1,1 - dichloroethylene	3 02E+00	1.45E+00	7 47E+00	1.21E+01	1.10E+00
1993	sludge	1,1-dichloroethane	1.34E+00	6 04E-01	3 20E+00	5 16E+00	1 12E+00
1993	sludge	trans-1,2-dichloroethylene	2 41E+00	1.06E+00	5 68E+00	9 12E+00	1 11E+00
1993	sludge	chloroform	3 01E+00	1.45E+00	7 46E+00	1.21E+01	1.10E+00
1993	sludge	1,2-dichloroethane	6 16E+00	3 01E+00	1.54E+01	2 52E+01	1.10E+00
1993	sludge	2-butanone	1.81E+01	9 03E+00	4 59E+01	7 51E+01	1.10E+00
1993	sludge	carbon tetrachloride	3 02E+00	1.45E+00	7 47E+00	1.21E+01	1.10E+00
1993	sludge	bromodichloromethane	3 03E+00	1.45E+00	7 48E+00	1.22E+01	1.10E+00
1993	sludge	1,2-dichloropropane	6 12E+00	3 01E+00	1.54E+01	2 51E+01	1.10E+00
1993	sludge	cis-1,3-dichloropropylene	3 04E+00	1.45E+00	7 49E+00	1.22E+01	1.10E+00
1993	sludge	dibromochloromethane	3 04E+00	1.45E+00	7 49E+00	1.22E+01	1.10E+00
1993	sludge	1,1,2-trichloroethane	3 01E+00	1.45E+00	7 46E+00	1.21E+01	1.10E+00
1993	sludge	benzene	6 11E+00	3 01E+00	1.54E+01	2 51E+01	1.10E+00
1993	sludge	trans-1,3-dichloropropylene	6 06E+00	3 01E+00	1.53E+01	2 51E+01	1.10E+00
1993	sludge	bromoform	1.21E+01	6 02E+00	3 07E+01	5 01E+01	1.10E+00
1993	sludge	4-methyl-2-pentanone	3 04E+00	1.45E+00	7 49E+00	1.22E+01	1.10E+00
1993	sludge	2-hexanone	1.21E+01	6 02E+00	3 06E+01	5 01E+01	1.10E+00
1993	sludge	1,1,2,2-tetrachloroethane	3 02E+00	1.45E+00	7 47E+00	1.21E+01	1.10E+00
1993	sludge	toluene	6 10E+00	3 01E+00	1.54E+01	2 51E+01	1.10E+00

Table C-12. (continued).

Data Set	Matrix	Constituent	mg/kg	Standard Error	90% UCL	95% UCL	Degree of Freedom
1993	sludge	chlorobenzene	3.01E+00	1.45E+00	7.46E+00	1.21E+01	1.10E+00
1993	sludge	ethylbenzene	3.02E+00	1.45E+00	7.47E+00	1.21E+01	1.10E+00
1993	sludge	styrene	6.11E+00	3.01E+00	1.54E+01	2.51E+01	1.10E+00
1993	sludge	cis- 1,2-dichloroethylene	2.82E+00	1.33E+00	6.90E+00	1.12E+01	1.11E+00
1993	sludge	xylene	3.04E+00	1.45E+00	7.49E+00	1.22E+01	1.10E+00
1996	sludge	2-methylnaphthalene	4.22E+00	8.68E-01	5.45E+00	5.86E+00	7.12E+00
1996	sludge	1,2-dichlorobenzene	7.92E+00	1.51E+00	9.97E+00	1.06E+01	1.31E+01
1996	sludge	naphthalene	9.99E+00	2.17E+00	1.31E+01	1.42E+01	6.54E+00
1996	sludge	bis(2-ethylhexyl)phthalate	4.54E+02	5.38E+01	5.28E+02	5.52E+02	1.08E+01
1996	sludge	1,2,4-trichlorobenzene	1.05E+01	2.29E+00	1.38E+01	1.49E+01	7.54E+00
1996	sludge	1,3-dichlorobenzene	1.04E+01	2.29E+00	1.36E+01	1.47E+01	7.53E+00
1996	sludge	1,4-dichlorobenzene	1.10E+01	2.30E+00	1.43E+01	1.54E+01	7.68E+00
1996	sludge	2,4-dimethylphenol	1.29E+01	2.40E+00	1.62E+01	1.73E+01	8.93E+00
1996	sludge	2-methylphenol	1.51E+01	2.65E+00	1.88E+01	1.99E+01	1.13E+01
1996	sludge	4-methylphenol	1.28E+01	2.40E+00	1.62E+01	1.73E+01	8.87E+00
1996	sludge	di-n-butylphthalate	1.04E+01	2.29E+00	1.36E+01	1.47E+01	7.53E+00
1996	sludge	phenanthrene	1.04E+01	2.29E+00	1.37E+01	1.48E+01	7.53E+00
1996	sludge	phenol	1.09E+01	2.30E+00	1.42E+01	1.53E+01	7.63E+00
1996	sludge	Total Carbon	1.27E+04	2.96E+03	1.65E+04	1.76E+04	1.73E+02
1996	sludge	2,4,5-trichlorophenol	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	2,4,6-trichlorophenol	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	2,4-dichlorophenol	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	2,4-dinitrophenol	3.97E+01	8.49E+00	5.15E+01	5.53E+01	9.54E+00
1996	sludge	2,4-dinitrotoluene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	2,6-dinitrotoluene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	2-chloronaphthalene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	2-chlorophenol	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	2-nitroaniline	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	2-nitrophenol	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	3,3'-dichlorobenzidine	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	3-nitroaniline	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	4,6-dinitro-2-methylphenol	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	4-bromophenyl-phenyl ether	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	4-chloro-3-methylphenol	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	4-chloroaniline	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	4-chlorophenyl-phenyl ether	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	4-nitroaniline	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	4-nitrophenol	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	acenaphthene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	acenaphthylene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	anthracene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	benzo(a)anthracene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	benzo(a)pyrene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	benzo(b)fluoranthene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	benzo(g,h,i)perylene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	benzo(k)fluoranthene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	benzoic acid	5.57E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	benzyl alcohol	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	butylbenzylphthalate	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	carbozole	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	chrysene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	di-n-octylphthalate	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	dibenz(a,h)anthracene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	dibenzofuran	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	diethylphthalate	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	dimethylphthalate	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	fluoranthene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	fluorene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	hexachlorobenzene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	hexachlorobutadiene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	hexachlorocyclopentadiene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	hexachloroethane	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	indeno(1,2,3-cd)pyrene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	isophorone	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	N-nitroso-di-n-propylamine	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	N-nitrosodiphenylamine	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	nitrobenzene	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00

Table C-12. (continued).

Data Set	Matrix	Constituent	mg/kg	Standard Error	90% UCL	95% UCL	Degree of Freedom
1996	sludge	pentachlorophenol	5.56E+01	1.19E+01	7.21E+01	7.74E+01	9.00E+00
1996	sludge	pyrene	1.10E+01	2.41E+00	1.44E+01	1.55E+01	8.61E+00
1996	sludge	pyridine	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	bis(2-chloroethoxy)methane	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	bis(2-chloroethyl)ether	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
1996	sludge	bis(2-chloroisopropyl)ether	1.16E+01	2.44E+00	1.50E+01	1.62E+01	8.90E+00
			nCi/g				
1996	Sludge	Pu-238	1.89E+00	2.80E-01	2.35E+00	2.55E+00	3.59E+00
	Sludge	Pu-2391240	9.53E-01	9.49E-02	1.08E+00	1.12E+00	2.47E+01
	Sludge	Am-241	1.14E+00	1.89E-01	1.39E+00	1.48E+00	1.18E+01
	Sludge	Cm-242	4.54E-03	1.01E-03	5.90E-03	6.33E-03	1.22E+01
	Sludge	Cm-243/244	2.91E-01	5.64E-02	3.68E-01	3.92E-01	1.23E+01
	Sludge	Np-237	3.72E-03	8.02E-04	4.84E-03	5.21E-03	8.34E+00
	Sludge	U-233/234	6.22E-01	9.25E-02	7.64E-01	8.19E-01	4.25E+00
	Sludge	U-235	1.98E-02	3.08E-03	2.49E-02	2.71E-02	3.16E+00
	Sludge	U-238	1.05E-02	9.87E-04	1.18E-02	1.22E-02	2.08E+01
	Sludge	Sr-90	1.84E+03	3.59E+02	2.36E+03	2.54E+03	6.03E+00
	Sludge	Ag-108	1.09E-01	2.65E-02	1.45E-01	1.56E-01	1.27E+01
	Sludge	Ag-110	1.91E-01	5.27E-02	2.62E-01	2.85E-01	1.20E+01
	Sludge	Ce-144	1.31E+00	3.89E-01	1.85E+00	2.03E+00	9.68E+00
	Sludge	Co-58	1.94E-01	5.46E-02	2.68E-01	2.90E-01	1.31E+01
	Sludge	Co-60	4.64E+01	8.05E+00	5.82E+01	6.26E+01	5.03E+00
	Sludge	Cs-134	1.34E-01	2.75E-02	1.71E-01	1.83E-01	1.18E+01
	Sludge	Cs-137	9.88E+02	1.16E+02	1.14E+03	1.19E+03	1.66E+01
	Sludge	Eu-152	2.37E+00	4.98E-01	3.05E+00	3.27E+00	1.08E+01
	Sludge	Eu-154	4.08E+00	5.28E-01	4.81E+00	5.04E+00	1.07E+01
	Sludge	Eu-155	4.57E-01	6.43E-02	5.43E-01	5.70E-01	1.64E+01
	Sludge	Mn-54	7.00E-02	1.95E-02	9.64E-02	1.05E-01	1.31E+01
	Sludge	Nb-95	3.45E-01	1.65E-01	5.72E-01	6.46E-01	9.19E+00
	Sludge	Ra-226	2.35E-01	1.22E-01	4.07E-01	4.65E-01	7.16E+00
	Sludge	Ru-103	1.69E+00	4.69E-01	2.33E+00	2.53E+00	1.23E+01
	Sludge	Ru-106	1.42E+00	3.79E-01	1.94E+00	2.10E+00	1.29E+01
	Sludge	Sb-125	5.70E-01	1.55E-01	7.80E-01	8.46E-01	1.24E+01
	Sludge	Zn-65	1.76E-01	4.89E-02	2.42E-01	2.63E-01	1.28E+01
	Sludge	Zr-95	3.93E-01	1.19E-01	5.54E-01	6.05E-01	1.21E+01
	Sludge	1-129	7.57E-03	1.94E-03	1.02E-02	1.10E-02	1.22E+01
	Sludge	Ni-63	1.22E+02	2.46E+01	1.55E+02	1.65E+02	1.52E+01

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Appendix D

Data Spreadsheets from Excel™ File: *TCLP Table for V-Tanks*

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Appendix D

Data Spreadsheets from Excel™ File: TCLP Table for V-Tanks

Table D-1. Waste Analysis for V-Tanks (Sludges)

Waste Code	Hazardous Constituent	TCLP Limit (mg/L)	Tank V-1				Tank V-2				Tank V-3				Tank V-4							
			Sludge Phase	TCLP	Average	Standard Error	90% UCL	Sludge Phase	TCLP	Average	Standard Error	90% UCL	Sludge Phase	TCLP	Average	Standard Error	90% UCL	Sludge Phase	TCLP	Average	Standard Error	90% UCL
D004	Arsenic	5	0.0386	0	0.0386	0	0.0386	0.0386	0	0.0386	0	0.0386	0.0386	0	0.04	0	0.0378	0	0.042	0.0042	0.05	
D005	Barium	100	2.32	2	2.25	0.07	2.4655	1.1	1	1.125	0.025	1.2019	1.82	1	1.61	0.21	2.26	0.921	1	0.945	0.024	1.02
D006	Cadmium	1	0.303	0	0.317	0.014	0.3601	1.18	1	1.185	0.025	1.2619	0.198	0	0.166	0.032	0.26	0.97	1	0.985	0.015	1.03
D007	Chromium	5	0.286	0	0.2935	0.0075	0.3166	0.696	1	0.728	0.032	0.8265	0.601	0	0.4905	0.1105	0.83	0.234	0	0.255	0.021	0.32
D008	Lead	5	0.0817	0	0.0609	0.0208	0.1249	0.0515	0	0.049	0.0025	0.0567	0.0426	0	0.0414	0.0012	0.05	0.0844	0	0.0871	0.0027	0.10
D009	Mercury	0.2	0.0001	0	0.0001	0	0.0001	0.0001	0	0.0002	3E-05	0.0002	0.003	0	0.003	0	0.00	0.133	0	0.1795	0.0465	0.32
D010	Selenium	1	0.047	0	0.047	0	0.047	0.047	0	0.047	0	0.047	0.047	0	0.05	0	0.0489	0	0.0565	0.0076	0.08	
D011	Silver	5	0.018	0	0.0178	0.0002	0.0185	0.0161	0	0.0189	0.0028	0.0275	0.0154	0	0.0157	0.0003	0.02	0.0156	0	0.0156	0	0.02
D012	Endrin	0.02																				
D013	Lindane	0.4																				
D014	Methoxychlor	10																				
D015	Toxaphene	0.5																				
D016	2,4-D	10.0																				
D017	2,4,5-TP (Silvex)	1.0																				
D018	Benzene	0.5	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		
D019	Carbon Tetrachloride	0.5	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		
D020	Chlordane	0.03																				
D021	Chlorobenzene	100.0	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		
D022	Chloroform	6.0	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		
D023	o-Cresol	200.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		25	0.25	25.52					
D024	m-Cresol	200.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		25	0.25	25.77					
D025	p-Cresol	200.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		13	0.00	13.00					
D026	Cresol	200.0	30.18	3.187	35.066		28.95	1.1432	30.822		27	3.0224	31.95		62.75	0.35	63.84					
D027	1,4-Dichlorobenzene	7.5	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		4.075	0.425	5.38					
D028	1,2-Dichloroethane	0.5	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		
D029	1,1-Dichloroethylene	0.7	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		
D030	2,4-Dinitrotoluene	0.1	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D031	Heptachlor (& its epoxide)	0.008																				
D032	Hexachlorobenzene	0.1	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D033	Hexachlorobutadiene	0.5	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D034	Hexachloroethane	3.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D035	Methyl Ethyl Ketone	200.0	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		37.5	0	37.50		
D036	Nitrobenzene	2.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D037	Pentachlorophenol	100.0		51	9.4	65.41		47.9	2.485	51.97		44.5	8.15	57.85		36	2.5	43.70				
D038	Pyridine	5.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D039	Tetrachloroethylene	0.7	18.7	18.7	0	18.7		2.387	2.387	0	2.387		8.658	8.658	0	8.66		26.5	3.5	37.27		
D040	Trichloroethylene	0.5	3.71	3.71	0	3.71		0.71	0.71	0	0.71		2.587	2.587	0	2.59		900	200	1515.80		
D041	2,4,5-Trichlorophenol	400.0		51	9.4	65.41		47.9	2.485	51.97		44.5	8.15	57.85		36	2.5	43.70				
D042	2,4,6-Trichlorophenol	2.0	10.06	1.84	12.881		9.65	0.66	10.731		9	1.745	11.86		7	0.5	8.54					
D043	Vinyl Chloride	0.2	0.5	0.5	0	0.5		0.5	0.5	0	0.5		0.5	0.5	0	0.5		12.5	0	12.50		

RED - Detection limit value
BLACK - Above Detection limit
Not Reported

Table D-2. Waste Analysis for V-Tank (Liquids)Waste Analysis for V-Tank (Liquids)

Waste Code	Hazardous Constituent	TCLP Limit (mg/L)	Tank V-1			Tank V-2			Tank V-3			Tank V-8									
			Liquid Phase	Average	Standard Error	90% UCL	Liquid Phase	Average	Standard Error	90% UCL	Liquid Phase	Average	Standard Error	90% UCL	Liquid Phase	Average	Standard Error	90% UCL			
D004	Arsenic	5	0.012	0.013	1.25E-02	5.00E-04	0.014039	0.005	0.005	#####	0.00E+00	0.005	0.0044	0.0044	#####	0.00E+00	0.0044	0.232	0.232	0	0.232
D005	Barium	100	0.25	0.253	2.52E-01	1.50E-03	0.258117	0.163	0.183	#####	0.00E+00	0.163	0.191	0.189	#####	1.00E-03	0.19308	1.02	1.02	0	1.02
D006	Cadmium	1	0.049	0.042	4.55E-02	3.50E-03	0.059273	0.0344	0.0044	#####	0.00E+00	0.044	0.0392	0.0392	#####	0.00E+00	0.044	1.9	1.9	0	1.9
D007	Chromium	5	0.398	0.323	3.61E-01	3.75E-02	0.475925	0.0392	0.0392	#####	0.00E+00	0.0392	0.0106	0.0108	#####	1.00E-04	0.01101	1.46	1.46	0	1.46
D008	Lead	5	0.842	0.718	7.79E-01	6.30E-02	0.972914	0.0307	0.0037	#####	0.00E+00	0.0037	0.033	0.068	#####	1.75E-02	0.10437	0.942	0.942	0	0.942
D009	Mercury	0.2	0.367	0.369	3.68E-01	1.00E-03	0.371078	0.001	0.001	#####	0.00E+00	0.001	0.001	0.001	#####	0.00E+00	0.001	0.563	0.563	0	0.563
D010	Selenium	1	0.005	0.005	5.00E-03	0.00E+00	0.005	0.005	0.005	#####	0.00E+00	0.005	0.005	0.005	#####	0.00E+00	0.005	0.256	0.256	0	0.256
D011	Silver	5	0.059	0.043	5.10E-02	8.00E-03	0.075624	0.0024	0.0024	#####	0.00E+00	0.0024	0.0024	0.0024	#####	0.00E+00	0.0024	0.0315	0.0315	0	0.0315
D012	Endrin	0.02																			
D013	Lindane	0.4																			
D014	Methoxychlor	10																			
D015	Toxaphene	0.5																			
D016	2,4-D	100																			
D017	2,4,5-TP (Silvex)	1.0																			
D018	Benzene	0.5	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01	17	17	0	17.00
D019	Carbon Tetrachloride	0.5	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0	11	11	0	11.00
D020	Chlordane	0.03																			
D021	Chlorobenzene	100.0	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01	10	10	0	10.00
D022	Chloroform	6.0	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0	10	10	0	10.00
D023	o-Cresol	200.0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.83	0.83	0	0.83
D024	m-Cresol	200.0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.83	0.83	0	0.83
D025	p-Cresol	200.0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.83	0.83	0	0.83
D026	Cresol	200.0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.83	0.83	0	0.83
D027	1,4-Dichlorobenzene	7.5	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.05	0.05	0	0.05
D028	1,2-Dichloroethane	0.5	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0	25	25	0	25.00
D029	1,1-Dichloroethylene	0.7	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0	11	11	0	11.00
D030	2,4-Dinitrotoluene	0.1	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D031	Heptachlor & its epoxide	0.008																			
D032	Hexachlorobenzene	0.1	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D033	Hexachlorobutadiene	0.5	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D034	Hexachloroethane	3.0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D035	Methyl Ethyl Ketone	200.0	0.01	0.01	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	56	56	0	56.00	
D036	Nitrobenzene	20	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D037	Pentachlorophenol	100.0	5	5	5	0	5	5	5	5	0	5	5	5	5	0	5.00	0.01	0.01	0	0.01
D038	Pyridine	5.0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D039	Tetrachloroethylene	0.7	0.14	0.14	0	0.14	0.01	0.01	0	0.01	0	0.01	0.01	0.01	0	0.01	17	17	0	17.00	
D040	Trichloroethylene	0.5	0.16	0.16	0	0.16	0.03	0.03	0	0.3	0	0.3	0.2	0.2	0	0.20	410	410	0	410.00	
D041	2,4,5-Trichlorophenol	400.0	5	5	5	0	5	5	5	5	0	5	5	5	5	0	5.00	0.02	0.02	0	0.02
D042	2,4,6-Trichlorophenol	20	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1.00	0.01	0.01	0	0.01
D043	Vinyl Chloride	0.2	0.01	0.01	0	0.01	0.02	0.02	0	0.02	0	0.02	0.011	0.011	0	0.011	13	13	0	13.00	

RED - Detection limit value

BLACK - Above Detection limit

Not Reported.

Table D-3. Waste Analysis for V-Tank (Total).

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Table D-4. Waste Analysis for V-Tank (Volume).

Waste Analysis for V-Tank (VOLUME)				
	Tank V-1	Tank V-2	Tank V-3	Tank V-9
Volume of Liquid (L)	4406	4307	28997	265
Volume of Sludge (L)	1968	1734	2468	946
Weight of Sludge (Kg)	2002	1769	2512	1065
Weight percent solids in sludge, %	0.28	0.385	0.404	0.42
Weight of Solids, Kg	560.56	681.065	1014.848	447.3
Volume of TCLP soln (L)	11211.2	13621.3	20296.96	8946
Total Volume of Liquid in tank (L)	5847.4	5394.9	30494.2	882.7
Total Analyte (L)	17058.6	19016.2	50791.1	9828.7
Total Analyte (L)	17058.6	19016.2	50791.1	96694.7
Standard error of C3	172	170	172	27
Standard error of C4	125	120	133	97
Standard error of C5	127.3	122.8	135.5	117.1
Standard error of C6	0.005	0.027	0	0.105
Standard error of C7	50.0	68.9	56.9	111.8
Standard error of C8	1000.2	1377.6	1138.1	2236.5
Standard error of C9	219.7	220.8	226.2	164.1
Standard error of C10	1024.0	1395.1	1160.3	2242.5
				418.5
				3061.1

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